

AIRFIX

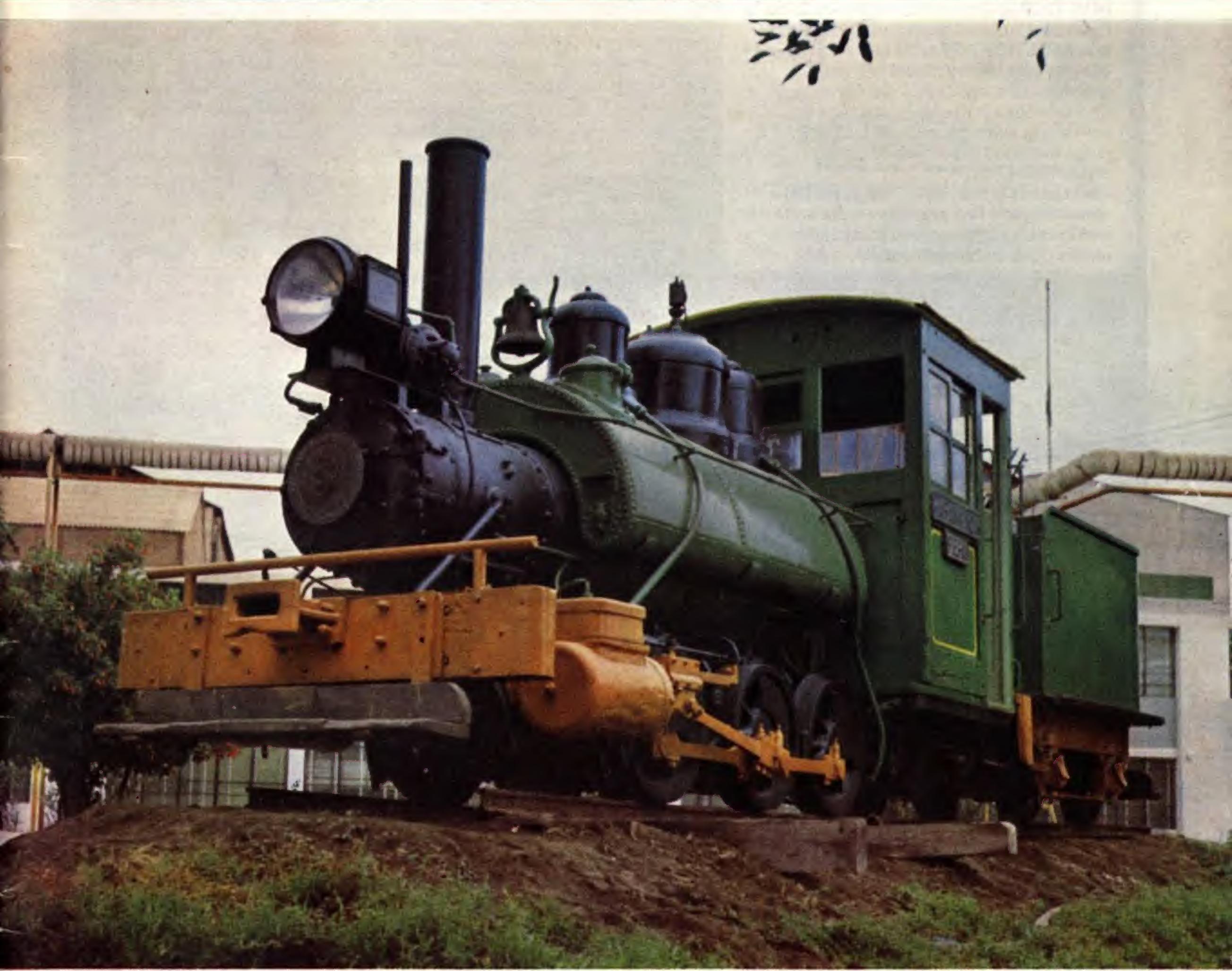
magazine

FOR PLASTIC MODELLERS

JUNE 1972

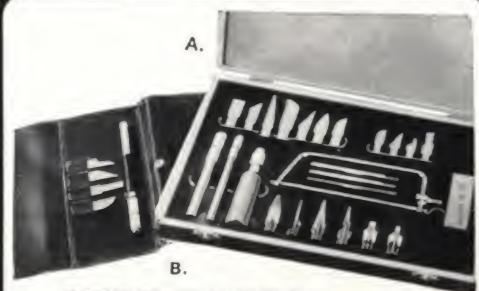
15p

MONTHLY



IN
THIS
ISSUE

Model soldier conversions for beginners
Modelling the Yak fighter family



STOP PRESS!

New from Humbrol, this fine range of **MULTICRAFT** precision tools. Available in four beautifully presented, different sized kits. **MULTICRAFT** tools are specially designed for use by modellers, printers, woodworkers, artists and display men. Shown above is the Major Kit (A)—containing all items in the **MULTICRAFT** range mounted in a polished sapele presentation box.

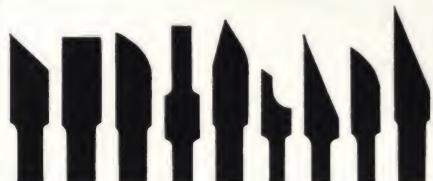
Also shown is the No. 1. Pocket Kit (B) consisting of a fine precision-work knife and four blades, presented in a hand-plastic gold-embossed wallet.

Skill, patience and Humbrol

Or should it be Humbrol, patience and skill? Either way, these are the three most important qualities for successful modelling.

Skill and patience—well, most serious modellers have them. Humbrol is the quality they all need. Used by modellers the world over, Humbrol enamels (matt or gloss, lead free and non-toxic) are the best value for money on the modelling market... only 7p for 15ml. Research has established that craftsmen prefer model paint in tins which keep the paint in good condition, are unbreakable and much safer than any other type of container—this is why Humbrol is packed in handy sized tins.

You'll find the colour you're looking for in the Humbrol range. Ask for Humbrol by name... available from all leading Model and Toy Shops.



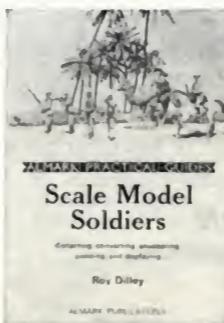
A selection from the Humbrol range of durable **MULTICRAFT** blades. All are made of finest Sheffield Steel, honed and polished to a razor edge. Humbrol **MULTICRAFT** tools—*quality products for a wide variety of uses*.

HUMBROL
HULL-YORKSHIRE

Humbrol will be pleased to send you—*FREE*—colour cards and leaflets giving you full details of the extensive range of enamels and other Humbrol quality products for the modeller. Write today to Mr. H. Stewart, Modelling Division, Humbrol Limited, Marfleet, Hull.

New books for enthusiasts every month—from Almarks

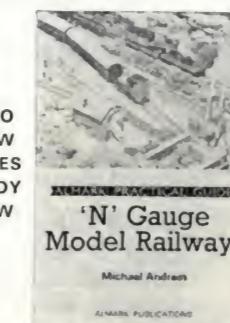
ALMARK PRACTICAL GUIDES



TWO
NEW
TITLES
READY
NOW

**Scale Model
Soldiers**

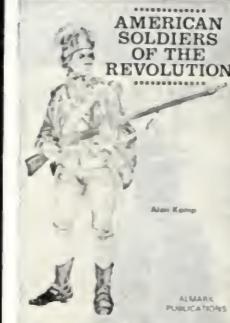
Converting, assembling,
painting and displaying
Roy Dilley
ALMARK PUBLICATIONS



**'N' Gauge
Model Railways**

Michael Andress
ALMARK PUBLICATIONS

AVAILABLE
NOW:



Paper £1.50
Bound £2

AVAILABLE NOW!

AVRO ANSON
Mks I, II, III, IV & X

By Alan W. Hall & Eric Taylor

Complete history of this famous aircraft—colour plates, drawings, pictures—presented in the well-known Almark style. This is the first book devoted to the 'Faithful Annie' and the authors give full serial and squadron listings as well as rare pictures and colour scheme details for sample aircraft.

Paperback £1;
Hardback £1.60

AMERICAN SOLDIERS OF THE REVOLUTION

By Alan Kemp (War of Independence)

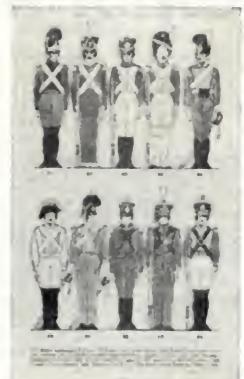
Covers both Patriot and Loyalist forces. Packed with text, drawings, old prints, and 9 superb colour plates showing the uniforms of the period.

AVAILABLE NOW!

This excellent book is a 'must' for those interested in the earlier part of the Napoleonic Wars period. A sample of the six pages of colour art is shown below.

**Soldiers of the
Peninsular War**

Paper £1.25
Bound £1.75



**MEN AND MACHINES
OF THE AUSTRALIAN
FLYING CORPS
1914-1918**

By Charles
Schaedel

READY MAY/JUNE

A KOOKABURRA PRODUCTION



This splendid new work records the aircraft and the airmen from Australia in World War 1. It is packed with rare pictures and excellent artwork. Some unique colour photographs of 1920 are shown.

UK price
£2 net

148 pp.
20 pp.
in
colour
 $11\frac{1}{4}'' \times 8\frac{1}{2}''$

ALSO AVAILABLE:

AIRCRAFT OF THE RAAF, 1921-1971 (£3.75)
ALBATROS SCOUTS DESCRIBED (50p)

Write with large SAE to
address below
for free catalogue

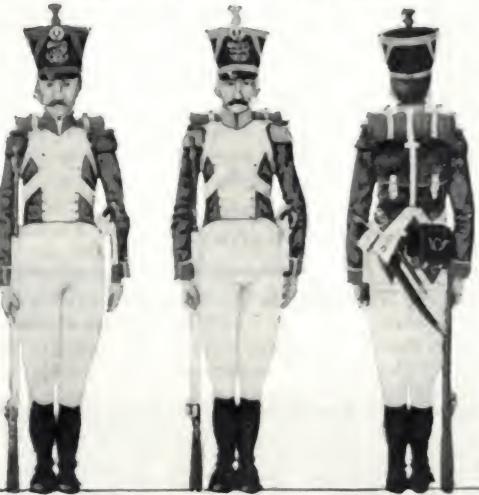


**ALMARK
PUBLISHING CO. LTD.**

270 Burlington Road
New Malden, Surrey
KT3 4NL
Tel. 01-949-1789



a new symbol of quality



CAMPAIGN COLOURS

A Range of oil-bound poster paints especially developed for the wargamer and Military Modeler.

Composing these advertisements can be quite a problem. For one thing they have to be written some time in advance of publication, and this can lead to real difficulties! For instance, we were developing a statement saying that we liked to offer a quick service, and current we were hit by a shortage of vital supplies, and delivery to Mail order customers and Dealers were held up. Apologies to all those customers whose Campaign Colours were delayed — apologies also to our retailers, all we can really plead is that this business, like others, is subject to Finagles law (if anything can go wrong it will).

Another point we must clear up is that these colours are not supplied in little tinslets, but in glass jars with a screw-on metal top, for no other reason than that screw top glass jars the paint keeps better, longer. That should have been made clear to everyone some time ago, it is one of our stronger selling points, but was so obvious to us that we haven't really mentioned it before!

Finally we would like to thank all those people who have bothered to write nice things about Campaign Colours when they re-order, your letters are greatly appreciated.

Colours available:

White (1), British Scarlet (2), Orange (3), Yellow (4), Yellow Ochre (5), Chasseur Green (6), French Blue (7), Sky Blue (8), Brown (9), Black (10), Royal Blue (11), Prussian Dragoon Blue (12), Rifle Green (13), French Artillery Green (14), Military Grey (15), Crimson (16), Flesh (17), Gold (18), Silver (19), Varnish Media (20).

In boxes of 10 at 90p, p.p. 10p; Individual colours 9p; Gold Powder 18p; Varnish Media 7p.

Postage and Packing: In boxes of 10—10p; 1 to 5 jars—7p; 6 to 10 jars—10p

FINE SABLE HAIR BRUSHES—Postage and Packing: 3p.
Size 00—18p; 0—20p; 1—22p; 2—27p.

TRADE ENQUIRIES WELCOMED

CAMPAIGN COLOURS
25 and 31 PRINCES AVENUE
HULL, HU5 3RX
Telephone 0482-407447

UNIFORMATION present the first in a series of prints designed to be of aid and interest to model makers, collectors, wargamers and diorama makers.

For easy filing and quick reference the title of each sheet is printed along the outer edge thus with a collection of these coloured prints the modeller will be able to find all the information he needs quickly and easily.

Our first series will cover the Napoleonic period. It is intended that future series will tackle both the popular and exotic in uniform periods with a refreshingly effective approach.

The first UNIFORMATION print is of FRENCH LINE INFANTRY 1812-15. Send your order to:

UNIFORMATION

Dept. A, Bivouac Books Ltd.,
21/25 Earl Street,
London, EC2A 2AL

Price is 75p, and this includes postage, and dispatch in a sturdy container.



HINCHLIFFE MODELS

MELTHAM, HUDDERSFIELD, HD7 3NX, ENGLAND.

DID YOU KNOW?

Grenadier a'Cheval, Horse and Foot Artillery of the Guard, Guard Lancers, Personality Figures, Russian Cavalry and Infantry, French Infantry, Royal Horse Artillery, gunners and rocket troopers — lots of new equipment models, plus horses, have all been released by us in the last month.

Better than ever models of collectors quality at wargamers' prices. Are you taking advantage? If not, a look at our new lists will be worth while. From your retailer now or direct 5p plus S.A.E.

Have you tried mounting our well proportioned figures on thin ply or card stands, your smaller figures on $\frac{1}{8}$ " stands. Try it, get the best of both worlds — you would be surprised how your armies achieve the height uniformity so many wargamers seem to seek.

Telephone :
01-520 4565

BRIDGE MODELS

I-2 STATION PARADE, HOE STREET BRIDGE, WALTHAMSTOW, LONDON, E.17

TAMIYA TANKS 1/35th Motorised

Saladin Armoured Car	£1.15
T34 Russian Tank	£1.40
SU100 Russian SPG	£1.40
TS5 Russian Tank	£1.60
M4 Sherman	£1.60
M41 Tank	£1.60
M42 Duster	£1.80
JSIII Stalin	£2.30
Chieftain	£2.30
Japanese Type 61	£2.30
König Tiger	£2.30
Jagd Tiger	£2.30
Sheridan M351	£2.30
Leopard	£2.30
Tiger I	£2.30
Panther V	£2.30
Jagdpanther V	£2.30
M60-A1 Tank	£2.60
Centurion Mk III	£2.60
M8 Armoured Car	99p

1/35th Un-motorised

Schwimmwagen	70p
Kubelwagen	70p
6 pdr Anti-Tank Gun	70p
Pzkw II+4 Afrika Korps	99p
Pzkw III+German Officers	£1.85

1/25—1/21 Motorised

T34 Tank—1/25	£4.50
Chieftain—1/25	£5.30
M4 Sherman—1/21	£3.99
Pzkw III—1/21	£3.99
Sturmgeschutz—1/21	£3.99
SU100 SPG—1/21	£4.50

Un-motorised

Tiger I (Interior detail)—1/25	£6.50
M2 155 mm Gun—1/21	£1.75

TAMIYA 1/35—Remote Control

Russian SU100	£2.25
Russian T34	£2.25
M42 Duster	£2.40
M4 Sherman	£2.40
M41 Bulldog	£2.40
Jagdpanzer V	£2.99
Panther V	£2.99
JS III Stalin	£2.99
Tiger I	£2.99
Jagd Tiger	£2.99
König Tiger	£2.99
Leopard	£2.99
M60 Cheyenne	£3.50

1/25—1/21 Remote Control

Tiger I (Interior detail)	£7.99
Chieftain	£6.99
Panther V	£6.99
Jagdpanther V	£6.99
T34 Tank	£5.70
SU100 SPG	£5.70
U.S. Big Shot 1/21st	£5.70



Aircraft . . .

Airfix - Frog - Revell

Selection of MONOGRAM

Otaki:	C5A Galaxy	£3.65
Fujimi:	Phantom 4E	£2.75
Tamiya:	Intruder A6A	£2.25
AURORA:	B52F	£4.00
Hasegawa:	Boeing 727	£1.00
	DC8, DC9	£1.00
	Flying Boat	£3.15
	Curtiss BF2C	£2.00
	Boeing P12E	£2.00

GRAUPNER — DMI
Keil — VERON — etc.



Fantastic, New, 'Mini-Guns'

all metal, working parts,
Hi-Powa* Caps (*15p) . . .

Luger P.08	3½" £1.05
Colt .45 Auto	3½" £1.10
S.W. Snub	2½" £0.99
Bolo Mauser	5½" £1.40
Walther P.38	3½" £1.25
Sig P.210/5	4" £1.25
Remington 44	5½" £1.25
Peacemaker	4" £1.25

... seeing is believing . . .

Badger Brushes

Complete, ready-to-use set £18.91
or with extra air can and extra jars £20.45

Figurines by :

HISTOREX — AIRFIX — LASSET — MINOT — HINTON HUNT — TAMIYA.

All manner of: Cars, Trucks, Ships, Space-Planes, Tanks, Bikes, Cannons, Guns, Boats, Books and Magazines, Tools, Paints, Balsa . . . COME UP AND SEE US SOME TIME.

BOOKS: Almark publications

Large selection of Almark books covering: Royal, and German Navy military uniforms. Napoleonic — 1st and 2nd W.W. — Aircraft — Tanks — Regimental colours. — ALSO — Blandford — PSL, Arms and Armour, Kookaburra — Small Arms Profiles — Funcken Aircam — Ducimus Camouflage & Mkgs. Decline and Fall of Nazi Germany and Imperial Japan: £4.50.



Tribal Class Destroyers

Peter Hodges

ALMARK PUBLICATIONS

Bridge mail-order International

International rates on application. SAE please

Postage & Packing rates
Up to £5.00 add 10%, minimum 10p. Over £5 post free

247 ARGYLE STREET
(Central Station Bridge)
GLASGOW G2 8DN
041-248 6686

103 HIGH STREET
(The Royal Mile)
EDINBURGH EH1 1SG
031-556 4402

ARGYLE
MODELS

BRITAIN'S LEADING MODEL SHOP

NEW FROM REVELL

1/32 DH Mosquito IVB	£1.55
1/32 FW 190D	£1.15
1/32 ME 262	£1.15
1/72 Blue Angels	£1.15
Complete team—4 Phantoms, stand and decals	£1.55
1/72 Coastal Command Fortress II	75p
1/72 Coastal Command Catalina NA	75p

NEW FROM FROG

1/72 HE 111 H-4/6	78p
1/72 Buccaneer	21p
1/72 Corsair	21p

NEW FROM LINDBERG

1/48 Corsair F4V (Motorised)	£1.15
------------------------------	-------

NEW FROM RAREPLANES

1/72 Lavochkin La5	65p
1/72 Breda 65	65p

NEW FROM ITALAERI

1/72 F84F Thunderstreak	99p
1/72 RF84F Thunderflash	99p

NEW FROM AIRMODELS 1/72

123. DO 18 Flying Boat	£1.50
Three versions of this huge plane can be built from this complete kit.	
124. DO23G Bomber	£1.50
Complete kit of the first Luftwaffe bomber and wartime trainer.	
125. HE 42C Seaplane	75p

Complete kit of this pre-war Luftwaffe trainer.	
126. Gotha Go 229	75p
(Horten IX V3). The last and most revolutionary fighter built for the Luftwaffe. This is a complete kit of this unusual tailless jet.	
128. DO27	75p

Post-war observation and light utility aircraft used by all German forces, also civil version. Complete kit.	
129. Gotha Go 242/244B-2	£1.50
Complete kit for this huge glider will also build the motorised B version.	
(HE 111Z Tow-plane to be released shortly)	

121. N.A. F86D Sabre	30p
Conversion kit for Hasegawa F86F (34p)	

122. ME 109B	30p
Conversion kit for Revell Me 109E (20p)	

130. Dornier DO17E/17F/17KA/21S	30p
Conversion kit to make any of these versions of the famous Luftwaffe "Flying Pencil" bomber.	

COMPLETE LIST OF ALL AIR-MODEL CONVERSIONS, INCLUDING A.F.V.'S, SENT FREE ON REQUEST.	
---	--

103 HIGH STREET
(The Royal Mile)
EDINBURGH EH1 1SG
031-556 4402

ARGYLE
MODELS

S.E.G.O.M.

New 54 mm Figures in Plastic Kit Form

NAPOLEONIC PERIOD

Belgian Flanqueur 1815 in British type shako each 60p
Belgian Chasseur 1815 each 50p

FIRST WORLD WAR PERIOD

1914 French Infantry in Kepi and Greatcoat as at 1st Battle of the Marne 60p each
1916 French Infantry in Steel Helmet as at the Somme and Verdun 60p each
1916 French Mounted Dragoon in Steel Helmet with Lance £1.25 each

SECOND WORLD WAR PERIOD

Waffen S.S. Horse Drummer £1.25 each

Post and Packing 5p per order. Trade Terms Available

Free lists of S.E.G.O.M. Models

Jackboot German W.W.2 Figures

Frontier Parade of History

Lasset Figures

Tri-ang 1/1200 Ships

from

MODEL FIGURES & HOBBIES

8 College Square North, Belfast BT1-6AS

BOOKS
We have the largest selection in Britain. Over 1,000 titles in stock on every modelling subject. New revised 12-page list available shortly—send only 10p.

PROFILES
There are now nearly 500 titles available—and we have them all! New issues available as published, and huge stocks of older numbers, plus of course full range of Profiles Books, Bound Volumes, Men and Machines, etc. Lists available, Send S.A.E. and state whether Aircraft, A.F.V., Warship, Small Arms, or Loco's required.

DECALS
Huge selection by Almarks, ABT, ESCI, Microscale, Modelmark, etc. S.A.E. for full lists.

REPLICA GUNS
Full-size assembled metal models of famous pistols, rifles, and even machine-guns. Complete working models including magazines, firing mechanism, etc. (Cannot be used with live ammunition). Illustrated Catalogue 10p post paid.

HUMBROL
Complete new adhesive kit, contains six different adhesives to cover every possible requirement. £1.00
New 5-minute Epoxy 40p

MASKOL
New masking fluid—the answer to all those awkward masking problems. 40p

Authentic Camouflage Sets. Full range in stock. 60p. Individual tins—10p each.

WATERLINE SHIPS
1/125 Scale
New stocks expected shortly, including many new items. Full lists available. New Catalogues due next month:
Hansa 30p, Delphin 50p, Viking 5p. Lists only for Navis, Trident, Mercator. Eagle Kits: Victorious £1.25

In addition to ranges advertised, we have full stocks of Airfix, Frog, Revell, A.M.T., Lindberg, Monogram, Heller, Riko, Pyro, Tamiya, Hasegawa, Nichimo, etc.

MAIL ORDER DEPT, 247 ARGYLE STREET, GLASGOW
Prompt, courteous service backed by our famous money-back guarantee of satisfaction. Please add 5% post and packing (minimum 10p). Overseas extra-excess postage sent will be credited.

POST-INLAND
All orders over £5.00 post free. Orders up to £5.00 please add 10% unless otherwise stated. Minimum—10p

EXPORT
Please write to us with your requirements and we will be happy to proforma.

M C MODEL HOBBY CONSORTIUM

TANKS 1/35 Scale—

All Motorised
Russian JSIII Stalin £2.30
T55 Russian Tank £1.60
British Centurion Tank £2.60
T34 Russian Tank £1.40
British Chieftain Tank £2.30
Japanese Type 61 Tank £2.30
German King Tiger Tank £2.30

German Hunting Tiger Tank £2.30
Saladin Armoured Car £1.15
M8 Armoured Car 99p
U.S. M55 Sheridan Tank

German Leopard Tank £2.30
U.S. M36 Type B2 Destroyer £1.60
Tiger I £2.30
U.S. M42 Duster £1.80
German Panther Tank £2.30

German Rommel (Jagd Panther) £2.30
U.S. M41 Tank £1.60

TANKS 1/35 Scale with Two Motors and Remote Control
German Leopard Tank £2.99
King Tiger Tank £2.99
Hunting Tiger Tank £2.99
Tiger I £2.99
Russian JSIII Stalin £2.99
German Panther Tank £2.99
German Rommel Tank £2.99
U.S. M41 Walker Bulldog £2.40
U.S. M43 EB Sherman £2.40
U.S. M42 Duster £2.40
Russian T34 Tank £2.25
Russian SU100 Iukoff £2.25
U.S. M60-A1 Cheyenne £3.50

HISTOREX 54 mm

Mounted £1.65 Foot 80p
Large stocks of all. Plus the 'Scots Greys' and the new Foot Marshals on foot, Full Uniform, Berthier, Davout, Mortier, Sout, Bessieres, Poniatowski, Gouvion-st-Cyr, Murat. Complete Gun Team £8.00
Paint Set 9 Colours £1.37
Horses 85p
Horseware £3.87
1/32-1/35 Armour Accessories 37p
Catalogue 35p plus 5p post

ARTIPLAST

(Trade enquiries invited)
1/48, 1/50 Aeroplanes
D.H. Mosquito £1.35
P-38 Lightning £1.35
Fokker D.R. I 60p
Bristol Bulldog 60p
Avro 504K 60p
De Havilland DH2 60p
Hurricane 58p
P-51B Mustang 58p
P-39 Airacobra 58p
Albatross D III 60p
Hellcat 90p
Nieuport 60p
Avenger 90p
Macchi M416 60p
Macchi M.C. 72 60p
Macchi M.C. 200 60p
Camel 60p
Caproni Reginale 2000 60p
Fiat G55 60p
Fiat G91 (Italy or German) 65p

LINDBERG

1/32 Mosquito IV 75p

1/32 ME 262 75p

1/32 Focke-Wulf 190-D 75p

HELMET KITS 54 mm 50p

2 British 'Inniskilling' Dragoons 1815

3 The Scots Greys, 1815

4 French Line Dragoons

5 French Line Dragoons

Officer 1815

6 Russian Heavy Cavalry, 1812-15

9 French General Cuirassiers, 1810-15

10 French Empress Dragoons, 1806-15

12 French Horse Grenadiers, 1807-15

MONOGRAM

D.H. Mosquito £1.35

P-38 Lightning £1.35

Fokker D.R. I 58p

Bristol Bulldog 58p

Avro 504K 58p

De Havilland DH2 58p

Hurricane 58p

P-51B Mustang 58p

P-39 Airacobra 58p

Albatross D III 58p

Hellcat 90p

Nieuport 60p

Avenger 90p

Macchi M416 60p

Macchi M.C. 72 60p

Macchi M.C. 200 60p

Camel 60p

Dauntless 90p

Hawker Hunter 75p

ME-262 75p

MAIL ORDER

INSTANT TURN ROUND—SUBJECT TO AVAILABILITY OF ORDER
P. & P. UP TO £3.00—15p OVER £3.00—FREE
IT IS REGRETTED THAT NO LETTERS CAN BE ANSWERED UNLESS ACCOMPANIED BY A S.A.E.

OVERSEAS ORDERS PLEASE DEDUCT 14p—£1.0 PURCHASE TAX

New FROM RENOWN



MV.I. BEDFORD 15 cwt. MWD (World War II)

SCALE: 4 mm = 1 foot

For the wargamer, the diorama builder or the collector, the first of a new range of cast white—metal kits of historic military vehicles prepared from actual vehicles and the manufacturers' drawings. Interior Cab detail is omitted to bring the product within a junior's price range and we would also like to point out separate parts are kept to a minimum to facilitate easy assembly.

PRICE £1.22 each + 9p post and packing

Phoenix Model Developments Ltd.

Producers of Miniature Historic Figures & Scale Models etc.

Dept. A, The Square, Earls Barton, Northampton, England

82p	13 French Cuirassier Officer, 1810-15
44p	14 French Cuirassier Troopers, 1803-15
44p	Cement 10p
44p	WARSHIPS Scale 1/250
44p</td	

EVERYTHING FOR PLASTIC MODELLERS

NEW TRANSFERS

There are now 67 types in the E.S.C.I./YEOMAN range at 44p set.

Fully illustrated catalogue 18p post paid

NEW AIRCRAFT KITS

REVELL 1/32 MOSQUITO £1.51

REVELL 1/32 ME.262 jet £1.13

REVELL 1/32 F.W. 190D £1.13

FROG HEINKEL He III 1/72 80p.

FROG 1/72 CHANCE VOUGHT CORSAIR 21p.

AIRFIX D.H.2 BEAVER 35p.

NEW FIGURES 54 mm

LASSET 54 mm. Metal Figures Unpainted £1.06 each.

ALSO LASSET Metal Spare Parts—List 6p.

HISTOREX AND AIRFIX in stock.

NEW TRUCK KITS 1/25th scale

A.M.T.—G.M.C. ASTRO 95 £3.40.

A.M.T.—LOWBOY TRAILER £3.40.

A.M.T.—PETERBILT WRECKER £4.75.

A.M.T.—L.N.T. 8000 FORD TRUCK £2.75.

List post free

MOTOR CYCLE

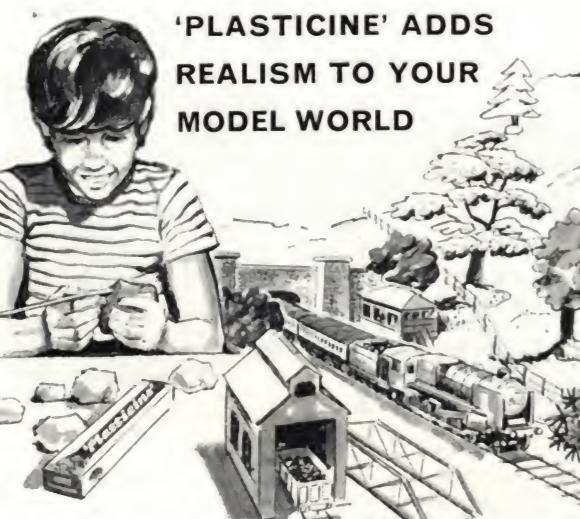
YEOMAN GERMAN ARMY B.M.W. R.75—1/9th scale—£4.50.

PLEASE ADD POSTAGE TO ALL ORDERS

CATALOGUES: 1972 Airfix 22p, 1972 Revell 17p, 1972 Aurora 22p, 1972 Triang 20p, Frog 10p, Slatters 18p, Heller 13p, Historex 40p, etc. All post paid.

JONES BROS. OF CHISWICK
56 Turnham Green Terrace, Chiswick, W4.
Tel. 01-994 0858
Closed all-day Thursday

Est. 1911
Member I.P.M.S.



'PLASTICINE' ADDS
REALISM TO YOUR
MODEL WORLD

To make your settings really convincing, add the finishing touches with 'Plasticine'. There's a world of scope in every pack. Choice of 18 colours in king-size 1 lb. economy packs. From all reputable toyshops, stationers and dealers in artists materials.

A Harbutt PRODUCTION

Set the scene
with 'Plasticine'

Harbutt's Plasticine Limited, Bathampton, Bath BA26TA

BELLONA

First in the field and still the best
Wargame Scenery and Landscape Models



LANDSCAPE FEATURES illustrated above

RV.2. River Bridge Single Span

WV.1. Walling short lengths including gateway

WV.2. Walling long lengths

- More than 30 super detail sets all to 1/72 (OO HO) Scale
- Many sets can be used together to make table top settings
- Diorama range make ideal set pieces
- Many sets include removable pill box, trench and bunker roofs
- BELLONA models make ideal companions for your Airfix figures, vehicles and tanks also Minitank Models

Defence Works and Landscape Features @ 19p each
Large Diorama Fortification Sets @ 53p each
Armetec A.F.V. Accessories @ 19p each
Armetec "Hetz" Tank Kit @ £1.22 each

Send s.a.e. for catalogue to makers, **MICRO-MOLD PLASTICS**
1 Unifax, Goring-by-Sea, Sussex (Tel. Worthing 46999).
U.K. Trade Distribution—Micro-Mold, W. H. Models, J.N.T
Model Products—Export Enquiries to Micro-Mold

New from Profile



238 Mikoyan MiG-21 variants (Fishbed)
The magnificent 5-view colour art work; most accurate yet MiG-21 drawings. Many new photos; 24 pp MiG must for modellers

44 Ferret and Fox
Ferrets developed from the famous WW2 Daimler scout cars have been widely used. From their success evolved the Fox aluminium armoured car.

18 KM Bismarck
19 HMS Hood
Mighty Hood, most graceful warship of her time; a superb battle cruiser with one inherent defect. Bismarck—pride of the German fleet—found the fatal defect in the N. Atlantic in May 1941. Both Profiles contain double-size centre spread.

9 Beretta
A name that conjures up many an exciting yarn. During its career as one of the earliest weapon manufacturers, Beretta developed a comprehensive range of weapons. Modern Berettas are still used by the Italian Army.

23 Darjeeling Tanks
One of the most colourful stories yet told in the series. Some of the facts border on the fantastic.

Profile Publications Limited
Coburg House Sheet Street Windsor Berkshire Tel Windsor 69777

FROG® NEW HE III

CATALOGUE
12p & 5p post

80p

PLUS VOUGHT CORSAIR 21p

SPECIAL

NEW DECAL

CATALOGUE

30p Post Paid, Available Now



PROFILE BY MAIL ORDER

SEND NOW FOR THE LATEST RELEASES

(Available May 72)

Aircraft. No. 238 (MIG. 21), A.F.V. No. 44 (FERRET), S. Arms. No. 9 (BERETTA), Warships. No. 18 (K.M. BISMARCK), No. 19 (H.M.S. HOOD), Loco. No. 23 (DARJEELING TANKS), No. 24 (MERCHANT NAVY). ALL PROFILES IN STOCK. ORDERS DESPATCHED SAME DAY.

Send a stamped envelope for FULL COLOUR broadsheets.
Post. UK Rates. Up to 1p, 12p, Up to 20p, Up to 30p. £5 POST FREE
S.A.E. with all enquiries please. Overseas rates on application.
(Subject to STOCK AVAILABILITY)



ERNEST BERWICK

THE MODEL SPECIALISTS

11A NEWLAND STREET, KETTERING, NORTHANTS., ENGLAND. Telephone KETTERING 5998

A. G. CLARKSON R. C. SEDDON M. CLARKSON

aviation books galore!

Motor Books & Accessories Tel: 01-836 5376

Send 12p for list. Refunded on orders of £2.50 or more.
Personal callers welcome.

POST FREE ANY 'AIRFIX' KIT

SERIES I 19p, II 25p, III 35p, IV 55p, V 69p, VI 89p, VII £1.10, VIII £1.29, IX £1.35, X £2.10, XX £4.60, etc.

ALSO ANY 'REVELL' 1/32 SCALE
AND THE FOLLOWING 'FROG' KITS

Macchi MC 202, Mustang, FW152F, ME109F, Hurricane (all 21p)
B/Burn Shark, ME410, Lysander, Vultee Vengeance II (all 31p)
Super Sabre, Thunderchief, Sky Hawk, Hawker Harrier (all 54p)

THE MODEL DEPT., CATOR SHOPS LTD.
56 Fore St., Brixham, Devon
Phone 2685 Member I.P.M.S.

OFFER APPLIES TO UK ONLY & CLOSES JUNE 30th, 1972

AIR CONVERSIONS

HUNTER T.7 (2 Seat)

All parts to convert 1/72 kit (Airfix)
45p (Nose, Spine, Canopy) full instructions.
Featured on our FREE BROADSHEET

RAREPLANES

NEW. All at 66p each

BREDA. 65

SUPERMARINE SPITFIRE

also in stock.

Lavochkin L.A.5

H.S. 126

Curtis Demon

H.E. 112

Northrop A.17/A

Featured on our FREE BROADSHEET

CONVERSIONS CORNER

PLASTIKARD 005—060

PLASTIGLAZE 010—020

MICRO-ROD, MICRO STRIP

METALSKIN

BADGER AIR BRUSHES

BODY PUTTY, ETC.

SEND S.A.E. FOR FREE BROADSHEET



See in the dark with JOY Luminous Paint. Ideal for use on skeletons, toys, models, novelties, light switches, door numbers, paper, cardboard, and materials etc.

Light active but not radio active. Outfits contain Base Reflecting Coat and Top Luminous Coat. Green shade only.

JOY is a registered trade mark of TURNBRIDGES LTD., LONDON, S.W.17.



quality products for
Sticking, Staining,
Polishing, Painting



AIRFIX

magazine
FOR PLASTIC MODELLERS

June 1972

Volume 13 No 10

Editor: Chris Ellis

Cover Picture

This charming little Baldwin 0-6-0ST will be a familiar shape to those who have seen or operated the HO scale Minitrains narrow gauge model. The Baldwin company, of Philadelphia, build hundreds of these narrow gauge 'lokeys' in a range of sizes and gauges. The Minitrains model represents an 0-4-0 version while the example shown is an 0-6-0 with longer boiler. The picture suggests a simple idea for modelling the 0-6-0 version using the Minitrains body, Airfix 'Pug' parts, and an 0-6-0 N. gauge loco chassis. The tender for oil, coal, or wood was a typical addition used with many of these engines while the pilot steps and headlamp are characteristics of American railway practice. This locomotive, now in retirement, is Works No 43718 and was used by the Paramonga Sugar and Paper Works, Peru.

(Photograph by Dennis W. Robinson)

Next publication date:
June 23, 1972

Advertisement Representatives:
Jackson-Rudd & Associates Ltd
84-86 Gray's Inn Road
Martin House
London, WC1

Advertisement Manager: Jim Boyd
Tel: 01-405 3611

June 1972

Editorial Offices:
PSL Publications Ltd
9 Ely Place
London, EC1N 6SQ
Tel: 01-405 2297

Contents

Condor conversion: simple model from Chipmunk parts by Alan C. M. Laird	538
Photopage: more rare photographs from readers	541
Leopard ARV: another conversion from the basic Leopard kit by R. Pawley	544
Books: recent publications of interest to modellers	546
Coles Cranes: photographic supplement to previous article by D. E. Jane	547
Water Tower: scratch-built model from wood and scrap by Michael Andress	550
Uniform Details: information on Airfix 54 mm figure kits by D. S. V. Fosten	552
Space Saving Modelling: display ideas for models by H. H. Wills	553
Medieval Town: construction details from Terence Wise	554
The Yak Family: ideas for converting the Airfix Yak-3 kit by Brian Spooner	556
Swiss Guards: conversion from the Coldstream Guardsman by R. E. Wood	559
Auto Blinda: scratch built model by Gerald Scarborough	560
Afrika Korps: modelling the engineers by Robert C. Gibson	562
Model Soldiers: simple ideas for converting 'Deetail' figures by Roy Dilley	565
FE 8: World War 1 fighter from DH4 and 504K parts by Tony Woollett	568
New Kits and Models: latest releases reviewed for modellers	570
Letters to the Editor: your chance to win a free Airfix kit	576

Circulation Department:

Surridge Dawson & Company (Productions) Ltd
Publishing Department, 136/142 New Kent Road, London, SE1
Telephone: 01-703 5480

Airfix Magazine is published for the proprietors, Airfix Products Ltd, by PSL Publications Limited, on the fourth Friday of each month. Annual subscription rate £2.52 (USA \$6.75) from Surridge Dawson & Company (Productions) Ltd. Second Class postage paid at New York Post Office, N.Y.

© All articles and illustrations published in AIRFIX MAGAZINE are strictly copyright, and may not be reproduced without written permission from the Publishers. The Editor welcomes the submission of editorial material, which should be accompanied by return postage. Though every care is taken, the publishers cannot accept responsibility for safe keeping of editorial contributions.



MEMBER OF THE AUDIT
BUREAU OF CIRCULATIONS

CONDOR

FROM A CHIPMUNK

BY ALAN C.M. LAIRD

ROLLASON Aircraft & Engines Ltd initiated production of the Condor in 1962 as a two-seat follow-up to the successful Turbulent ultra-light. The Condor was originally developed from the D31 Turbulent by its designer Roger Druine, although the final product now bears little resemblance to its single-seat ancestor. Indeed, development is still continuing, changes being frequently made to ease production.

The first D62 Condor, G-ARHZ, originally had a Continental A85 engine, but was later fitted with a 90 hp C90. The next two were D62As with the 100 hp Continental 0-200-A. Since then, more than 40 have been produced, with a redesigned cowling, a few without flaps, some with straight sloping windscreen, and the original flat-topped roof replaced by a streamlined plywood one for aesthetic reasons. Combine this with the different fin and rudder paint schemes introduced to differentiate between aircraft in the circuit and it will be seen that very few Condors are identical, so care should be taken when modelling this aircraft to ensure accuracy in this respect.

Not as difficult a modelling project as first appearances suggest, any modeller of average skill could complete this satis-

Below: Two views of G-AVCZ in model form, the aircraft drawn opposite. In these pictures the yellow shows correctly as a lighter tone, achieved when modern panchromatic film is used. This conversion is an excellent addition to the as yet limited range of light civil types in model form.



Above: The Condor makes a most attractive model, especially if painted in one of the bright colour schemes illustrated here. G-ARVZ is bright yellow with red trim and blank white disc on tail for a racing number. This picture shows how half-tone pictures can mislead. Ortho film used here renders the yellow darker than the red trim. This occurs quite often on pictures of pre-1950 vintage when ortho film was more widely used.

factorily. However, some experience is necessary, and for this reason I will not go into great detail on construction methods.

Wings, wheels and prop blades come from the Airfix Chipmunk kit, the rest of the model is scratch-built. Once the wings are cut as shown in the diagram, all surface detail has to be removed, the aileron and flap lines filled and the new lines scribed on. At this stage the holes for the landing light housings should be cut (or these can be painted on at final finishing).

Cut the six parts for construction of the fuselage from 20 thou plastic card, plus the two bulkheads required. Chamfer the joining edges to 45° on the inside to obtain a flush fit. Join the sides to the rear floor, the extreme ends of the fuselage sides are cemented together. Bulkhead B1 forms the rear wall of the cabin and this is glued in now, the front ends of the fuselage are pulled inwards and bulkhead B2 is cemented there, the forward floor now being glued on. The front and rear fuselage tops are bent to shape and cemented in position. Glue on the wings, ensuring the correct angle, and allow to dry. When dry, file flat the join of the two wings so that it becomes flush

with the base of the fuselage. The engine has to be manufactured from balsa, Brummer Stopping or similar material (I used Plastone). The canopy could be moulded in one piece, or by moulding the roof and windscreen, the rest can be constructed from bent acetate sheet. Before the canopy is glued on, add all interior detail. Make the tail unit from 30 thou card. Lastly, make the main undercarriage legs and glue these in position under the wings, this will be an aid during painting.

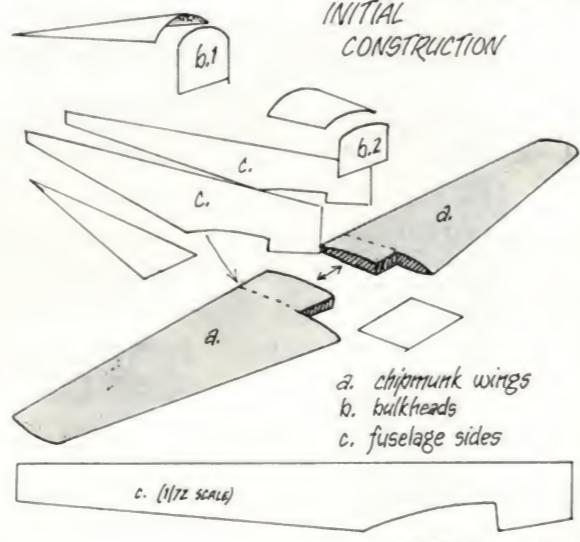
Painting is best done at this stage so that masking can be done unobstructed. Paint the whole model Humbrol gloss yellow and when dry mask the wing and tailplane leading edges, and front fuselage, in preparation for painting Humbrol gloss Midnight blue. The fuselage cheat line and other dark blue trim was cut from dark blue transfer sheet, registration letters came from Letraset instant lettering sheets which, although black, are completely acceptable against the dark blue.

The prop blades are re-shaped from the Chipmunk's. Cut the hub from a piece of circular sprue or scrap.

Finally, add all surface detail and complete the undercarriage.

Continued on page 540

INITIAL CONSTRUCTION

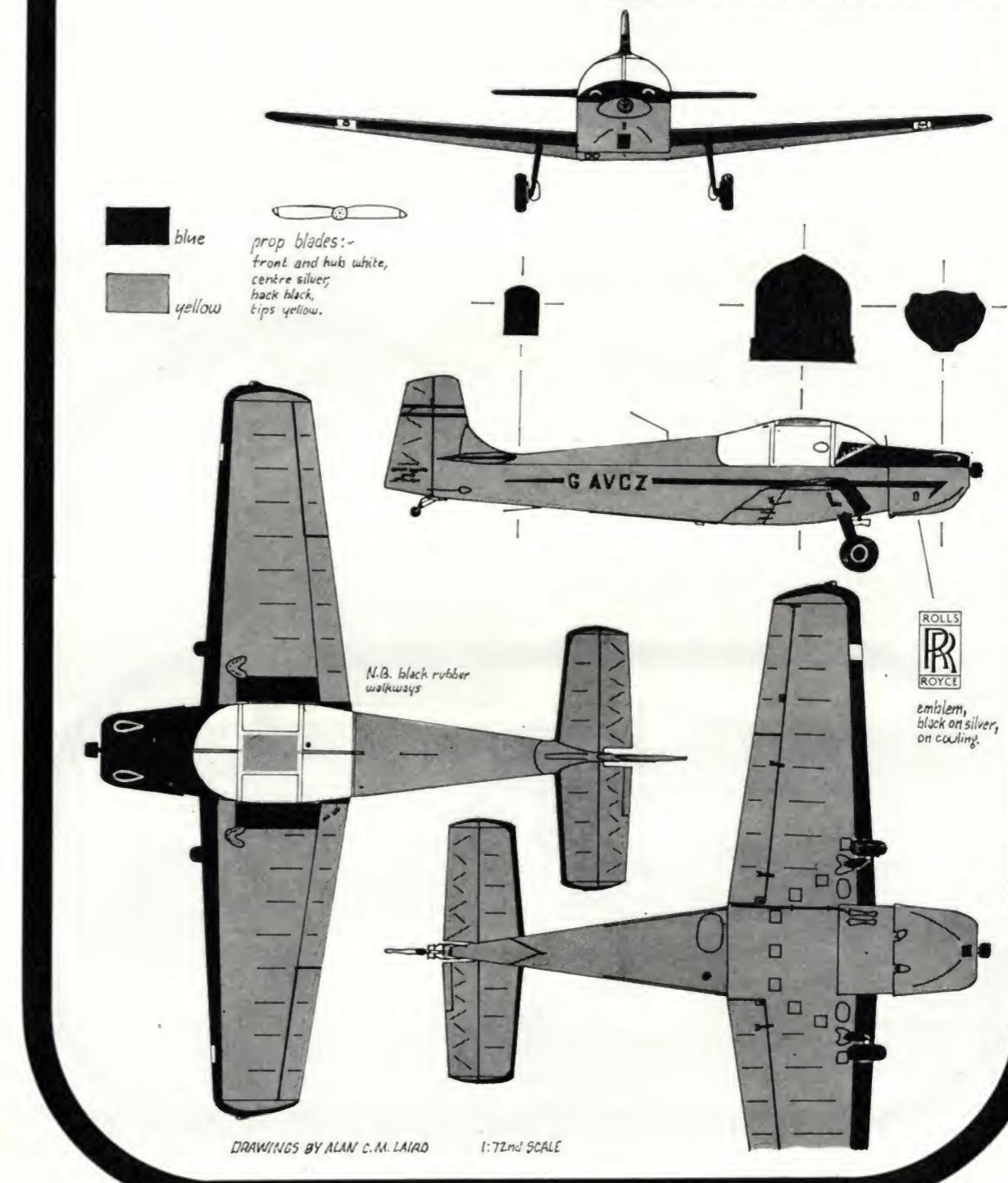


AIRFIX magazine

Instrument panel to 1/72nd scale.
Can be cut out and used on the
model if required.



ROLLASON D-62B CONDOR



COLOURS (below):

1: D62A. Note early style cowling and flat cabin roof. Aircraft overall yellow with dark blue trim. Tiger club emblem below cabin door.

2: G-AXGS is fitted with a fuel tank in the fairing under the fuselage. Note clipped wing tips fitted with end plates. This aircraft was entered in the England-Australia race but did not qualify. Standard colour scheme, black '65' in white circle. Tiger club emblem under cabin door. Red spinner.

3: Standard D62B G-AWFO. White rudder with black circle.

4: D62B G-AVKM standard scheme. Black competition number on white circle.

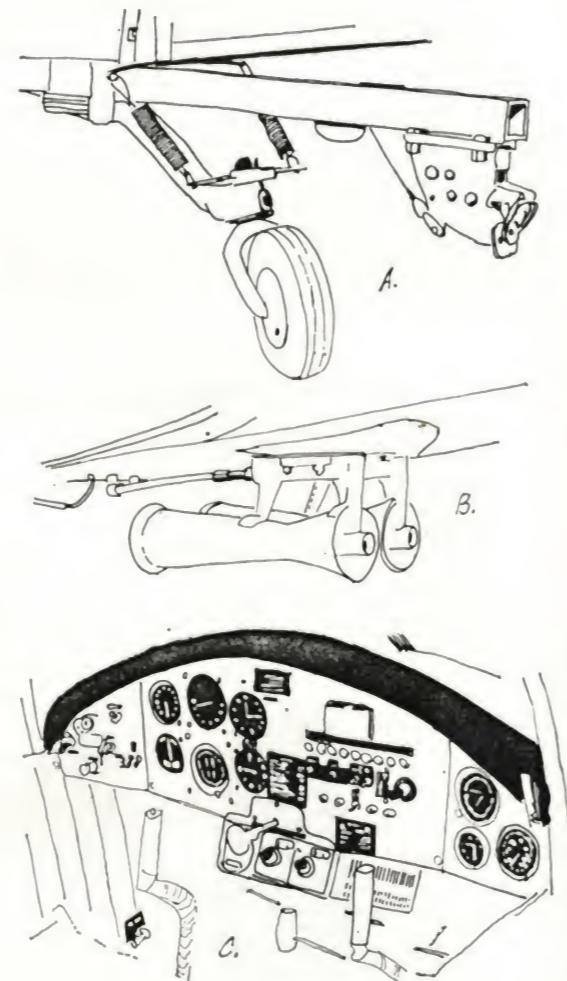
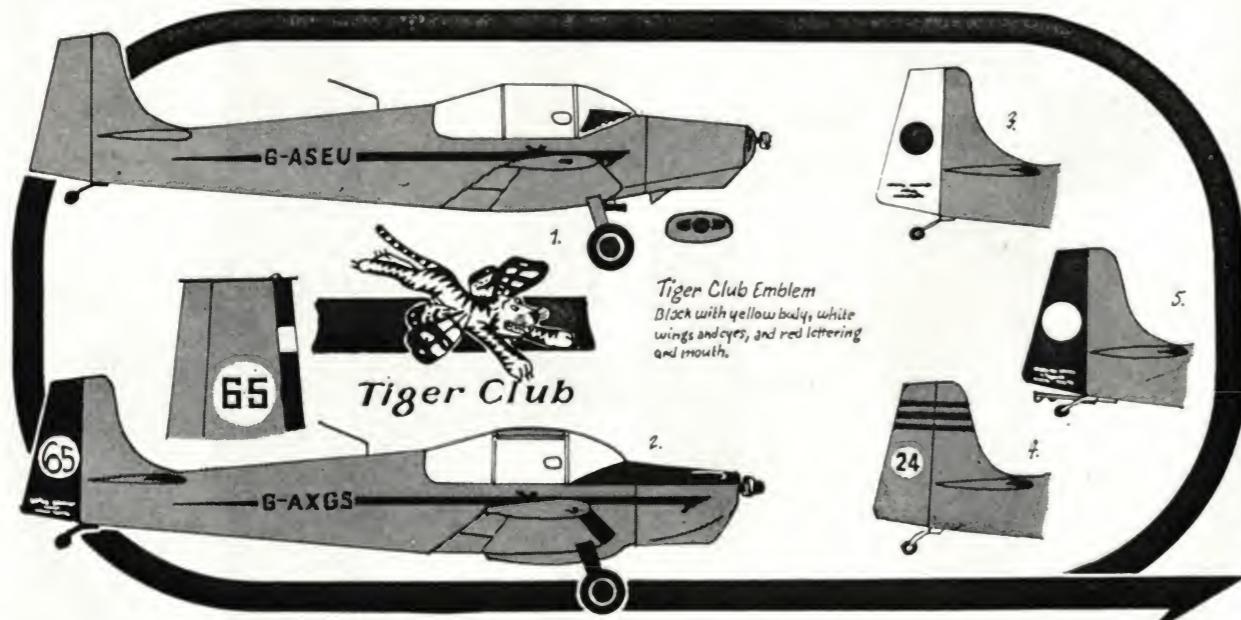
5: D62B G-AWSR. Standard scheme. 130 hp 'Super Condor' fitted for glider towing. Clipped wings and red spinner as G-AXGS.

A: Glider-towing hook. Note that tail-wheel is mounted on this.

B: Ventura mounted under the fuselage.

C: Instrument panel. Panel is either black or grey.

D62A Condor. This originally had the cowling as shown in the drawings of G-ASEU but is now fitted with the standard production cowling. Note absence of bulges.



photoPAGE

More rare pictures from readers with captions by Michael J. F. Bowyer. A free Airfix kit is awarded for every picture published, but please note that there is usually a delay of some months before publication due to the limited space at our disposal.



Above: Damaged Valentias of 216 Sqn after a hangar fire, late 1939. The camouflage is sand and dark earth approximating to the official colours and made from locally purchased hot distemper. Colour extends under fuselage but other undersides remained doped silver. Left: A natural finish DC-2 believed to be at Khartoum in 1939. It is in RAF roundels and has a serial ('276' is readable) painted on top of wings but not apparently elsewhere. Can anyone identify further? Below: B Flight Valentia being bombed up—note rough application of camouflage and squadron badge on nose. Below left: Two Valentias in late 1938 after an accident. Aircraft are silver doped with red/blue upper wing and fuselage roundels, dark grey codes and black serials. Red/white/blue roundels under wing.



Left: A camouflaged Bristol Bombay of 117 Sqn at Khartoum early in 1941. It was badly damaged in a storm while standing in the open awaiting an engine change. Coded P in light grey it appears to be in dark earth/middle stone with light (possibly Sky) undersides. Serial not known. A type roundels on fuselage.

PSL BOOKS FOR MODELLERS

How To Go Railway Modelling

By Norman Simmons

The fifth book in the 'How To Go' series covers layout planning and building, electrical wiring, track laying, vehicles, scenery and operation, with numerous illustrations. Written by an expert contributor to *Airfix Magazine*, it includes lists of clubs, magazines, manufacturers, model locomotives and stockists. 216 pp, 8½" x 5½", 111 photos, over 100 drawings, case bound.

£2.60 net, plus 14p p & p.



How To Go Plastic Modelling

By Chris Ellis

Editor of *Airfix Magazine*

The second edition of a standard work on plastic modelling. Covers such topics as: basic assembly, detailing, converting, modelling materials, tools, painting, transfers, markings, research, display, maintenance and scenic settings. 168 pp, 8½" x 5½", 80 pictures, 7 pp of scale drawings, case bound.

£1.50 net, plus 14p p & p.



How To Go Advanced Plastic Modelling

Edited by Chris Ellis

Editor of *Airfix Magazine*

This invaluable book is an essential companion volume to Chris Ellis' popular book for beginners. Will be enjoyed by modellers all over the world. Goes deeply into assembly, construction and conversion of many different types of plastic models. 192 pp, 8½" x 5½", 100 pictures, 68 drawings, case bound.

£2.00 net, plus 14p p & p.



How To Go Collecting Model Soldiers

By Henry Harris

An acknowledged military expert explains how to make the most of your collection. This book covers choice of scales, displaying models, developing 'themes', and conversion ideas, as well as surveying the history of the different arms. Gives advice on how to plan a model army and how to amass the men and materials for a serious collection. More than 70 superb photographs and a chapter on wargames by Donald Featherstone. 200 pp, 8½" x 5½", case bound.

£2.00 net, plus 14p p & p.



Fighting Colours

RAF Fighter Camouflage and Markings, 1937-1969

By Michael J. F. Bowyer

The author, a well-known contributor to *Airfix Magazine*, details the development and changes in camouflage and markings of Royal Air Force fighter types from 1937-1969, and lists the serial number allocations of every RAF fighter ever flown in that period. There are 139 individual drawings which depict specific aircraft in typical markings of the period. 192 pp, 8½" x 5½", 157 photographs, case bound.

£1.75 net, plus 14p p & p.



Airfix Magazine Annual for modellers

Edited by Chris Ellis

Editor of *Airfix Magazine*

A best-selling collection of features covering all the most popular aspects of plastic modelling. Written mainly by expert *Airfix Magazine* contributors, this instructive book contains 20 interesting, informative articles that will be enjoyed by all keen modellers. Published in association with Airfix Products Ltd. 96 pp, 9½" x 7½", 316 illus, case bound.

£1.25 net, plus 14p p & p.



Classic Ships, Their History and How To Model Them No 1—HMS Victory No 2—Mayflower

By Noel C. L. Hackney

Both books in this unique series not only have a colourful description of the history of a famous ship, but also contain highly detailed, stage-by-stage advice on how to construct a showpiece model of it, using the Airfix Classic Ship kit as a basis. Published in association with Airfix Products Ltd. 9½" x 7½", illustrated, case bound.

£1.05 net each, plus 14p each p & p.

Classic Aircraft, Their History and How To Model Them

No 1—Spitfire

By Roy Cross and Gerald Scarborough

Covering the Marks I to V, this book begins with the early history of the Spitfire, its design and early development, and then shows how the basic 1:24 scale Airfix kit of the aircraft can be turned into a magnificent museum-quality replica. Published in association with Airfix Products Ltd. 104 pp, 9½" x 7½", 211 illus, case bound.

£1.50 net, plus 14p p & p.

Seven famous books for railway modellers

These facsimile reprints of the GWR's popular 'Boys of All Ages' series by W. G. Chapman describe many aspects of the GWR, its locomotives and their history. Each book was first published in the 1920s and 1930s. 'The 10.30 Limited', 'Caerphilly Castle', 'Twix Rail & Sea, The King' of Railway Locomotives, £1.50 net each, plus 12p each p & p; 'Cheltenham Flyer', 'Track Topics, Loco's of 'The Royal Road', £1.60 net each, plus 12p each p & p.

Brunel and After

By Archibald Williams

This facsimile reprint of a book first published by the GWR in 1925 can be considered as a companion volume to the 'Boys of All Ages' series. It covers the history of the GWR from its inception in 1833 to 1924, describing the techniques, personalities and politics involved. There are 82 illustrations and a two-colour fold-out route map showing the entire GWR network. 216 pp, 7½" x 4½", case bound.

£2.00 net, plus 12p p & p.



AIRFIX magazine

PSL BOOKS FOR MODELLERS

Ships and Aircraft of the US Fleet

Edited by John S. Rowe and Samuel L. Morison

This, the ninth edition of an excellent reference source for ship modellers, has been completely redesigned and revised. Contains classification and characteristics of all craft in the US Navy and Coast Guard as at September 1971. 293 pp, 10" x 7", 427 photos, 19 line drawings, paper bound. A United States Naval Institute Press book.

£3.80 net, plus 21p p & p.



Henry Huddleston Rogers Collection of Ship Models

New edition

A photographic study of a famous collection of superb ship models in the US Naval Academy Museum. Includes ships of the line, frigates, sloops, brigs and many others. 150 pp, 7½" x 10½", 204 photos, case bound. A United States Naval Institute Press book.

£3.60 net, plus 21p p & p.



World Uniforms in Colour

Two superb colour books of interest to all military enthusiasts, modellers and model soldier collectors, describing and illustrating the uniforms, badges and ranks of present-day units with regiment and corps histories.

£1.50 net each, plus 25p each p & p.

Volume 1

Features the European Nations, with more than 190 colour illustrations. 12½" x 9½".

Volume 2

Covers 44 countries in America, Africa, Asia and Oceania, and contains nearly 300 colour illustrations. 12½" x 9½".

Each vol: 96pp, case bound.



Tanks An Illustrated History of Fighting Vehicles

By Armin Halle

Illustrated by Carlo Demand

This magnificent book traces the development of one of the most important weapons ever to appear on the world's battlefields. It starts with the story of the early armoured vehicles and then covers the development of the tank up to the present time. 176 pp, 11½" x 10", 184 illus (73 colour) and 223 diagrams, case bound.

£9.80 net, plus 25p p & p.

Guns

An Illustrated History of Artillery

Edited by Joseph Jobé

Traces the history and technology of artillery, from its beginnings in the 14th century to its final evolution in two World Wars. Military experts from four nations contribute to this superbly illustrated book. Also included is an illustrated catalogue of historically important guns and artillery pieces, with technical data. 218 pp, 11½" x 10", 305 illus (24 colour), case bound.

£9.80 net, plus 25p p & p.



British Warships of the Second World War

By Alan Ravan and John Roberts

This folio of authentic scale plans is an essential reference source for warship modellers. It includes scale plans—12 in all—of famous warships HMS Rodney, Royal Oak, Warspite, Renown, Repulse, Ajax, London, Manchester, Sussex, Ariadne, Onslow, and Lance. Every plan pulls out to 30 inches. A Conway Maritime Press book. 14½" x 10½", case bound.

£2.80 net, plus 25p p & p.



How to order

PSL books are published by Patrick Stephens Ltd, 9 Ely Place, London EC1N 6SQ (Tel: 01-405 2297). Use this order coupon to obtain your copies—post it to PSL or hand it to your bookseller or model shop. (Send for free descriptive leaflets if not convinced!) If you prefer not to cut your magazine, order on a piece of notepaper.

To: Patrick Stephens Ltd, 9 Ely Place, London EC1N 6SQ

Please supply me with the following books:

.....
.....
.....
.....
.....
.....

I enclose my remittance of £..... (including postage and packing) TOTAL £.....

NAME

ADDRESS

(Block caps please)

OR: YOUR BOOKSELLER OR MODEL SHOP

£ : P :

: : :

: : :

: : :

: : :

: : :

: : :

: : :

: : :

: : :

: : :

: : :

: : :

: : :

: : :

: : :

: : :

: : :

: : :

: : :

: : :

: : :

: : :

: : :

: : :

: : :

: : :

: : :

: : :

: : :

: : :

: : :

: : :

: : :

: : :

: : :

: : :

: : :

: : :

: : :

: : :

: : :

: : :

: : :

: : :

: : :

: : :

: : :

: : :

: : :

: : :

: : :

: : :

: : :

: : :

: : :

: : :

: : :

: : :

: : :

: : :

: : :

: : :

: : :

: : :

: : :

: : :

: : :

: : :

: : :

: : :

: : :

: : :

: : :

: : :

: : :

: : :

: : :

: : :

: : :

: : :

: : :

: : :

: : :

: : :

: : :

: : :

: : :

: : :

: : :

: : :

: : :

Leopard ARV

More conversions from the basic Airfix Leopard kit

By R. PAWLEY

THIS model makes a most interesting companion piece for the basic Leopard and Leopard AA tank described last month. Glue together parts 1, 2 and 3 of the Airfix Leopard kit, then cut part 4 as shown in the drawing. Don't forget the bend to level the rear decking. Next, glue this part and part 5. To complete this first stage, cut the slots in the front of part 3, as in the drawing, to accommodate the dozer blade.

Dozer blade

The base of Part 1 is a two-piece laminate made from two strips of 40 thou plastic card $\frac{1}{8} \times 1\frac{1}{8}$ inch; cut this to shape and glue to the blade, 1 $\frac{1}{8}$ inch wide, which should be cut from heat curved 20 thou plastic card. Curve this by binding round a suitable former and plunging into very hot water.

Part 2, dozer ram supports: Two are cut, shaped and drilled as drawn from 40 thou plastic card

Part 3, dozer ram: This is made from a piece of No 10 plastic knitting needle shaped and drilled as drawn.

Part 4 dozer pivot arms: Two are cut, shaped and drilled as drawn from 40 thou plastic card.

Part 5, pivot pin: This should be $\frac{1}{16}$ inch long from $\frac{1}{16}$ inch plastic rod. All pivot pins used in this conversion are from $\frac{1}{16}$ inch plastic rod, which is available from most big hobby stores. Glue parts 2 and 4 in exact positions as drawn. These parts have to move through cut-outs in the tank body. Pass the pivot pin through both parts 2 and the dozer ram.

Crew compartment

All parts are cut from 30 thou plastic card. Cut part 1 as drawn and bevel all three straight edges. Cut parts 2, 3 and 4, then parts 5 and 6; bevel the one long edge on each of them. Glue the 30 thou strips as drawn, 30 thou from the tops of parts 2 and 5 on the sides which will be inside to support the roof. Glue parts 2, 3 and 4 to part 1, making sure all parts match up. Part 5 is glued on at an angle and slanted away from the vertical, hence the bevel. Part 6 is then added to form a roofless crew compartment and, as no crew compartment should be roofless, cut part 7 and bevel three edges to fit. Cut part 8 and bevel all edges to fit, then glue parts 7 and 8 and, when dry, finish off with fine 'wet and dry' abrasive paper.

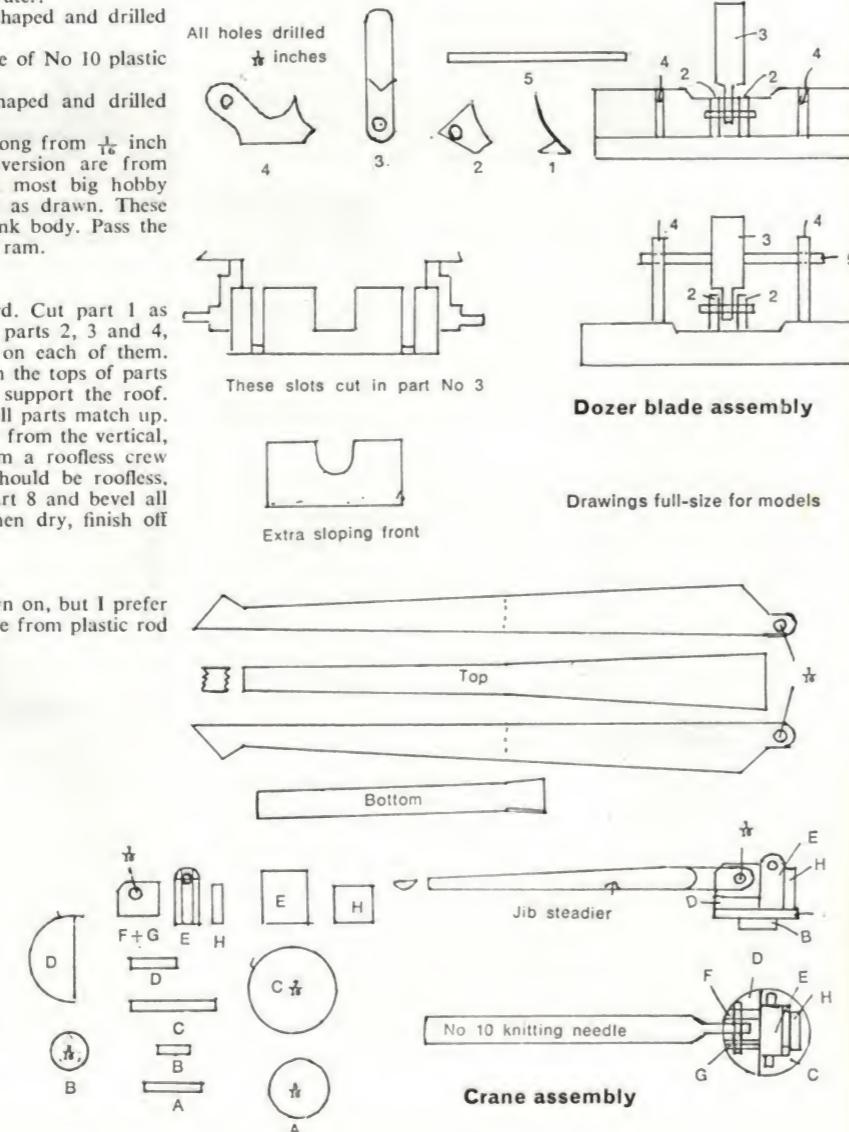
Hatches

The hatches can either be scribed on or drawn on, but I prefer to cut them from 5 thou plastic card, hinges are from plastic rod

Below: Front view of the ARV showing new jib, dozer blade and hatches made from plastic card and various bits from the spares box.



Above: Leopard ARV about to service a Leopard AA tank, the subject of last month's article. Both vehicles are conversions from the same basic kit.



and the handles from Microstrip and plastic rod. The two large hatches on parts 2 are 4/10 inch square with rounded corners. Add hinges and handles to the hatches with tiny strips of plastic card. The main hatch on the roof is from a two-piece 40 thou laminated circle of plastic card bevelled all round and topped off with one of the Leopard kit's own hatches. Of the two other roof hatches, the rear one is the driving hatch from the Leopard kit, with the periscopes made from 30 thou plastic card. The driver's hatch is a two-piece 40 thou laminate of plastic card. Cut this laminate to the same shape as the Leopard driver's hatch and shape to side view as drawn; add periscopes from 30 thou card and glue in position.

The hatches on part 6 are straightforward as is the hatch on part 3. Above and between the hatches on part 2 a shelf is made from 20 thou card on which are glued six smoke dischargers direct from the Leopard kit. The headlights and mirrors also are used.

A ventilator is made from the piece of plastic sprue joining the lights and mirrors from the Leopard kit. This vent is glued in the left-hand forward corner of part 8.

A machine gun left over from a Jagdtiger conversion is glued as in the photo above. This machine gun could easily be made from sprue and plastic rod. Spare pulley wheels and lifting gear can be made from content of spares box and plastic rod. Armtec accessories do some AFV tools which might be useful. For my conversion I cut out very carefully the spades and axes on part 4 of the Leopard kit and rubbed these down on 'wet and dry' abrasive paper till they were thin enough to use. These I glued on again to parts 2 and 3. Owing to this conversion there is an open space at the front of pieces 1 and 2 of the Airfix Leopard kit which needs filling in with 30 thou plastic card.

Crane

Begin by cutting out and drilling jib parts as drawn from 30 thou plastic card. With sides cut to shape, lightly score at the dotted lines and bend to match the top shape. Glue sides to top and bottom. Pulley wheel is made from a piece of No 10 knitting



Above: Side view showing jib stowage detail and new superstructure.

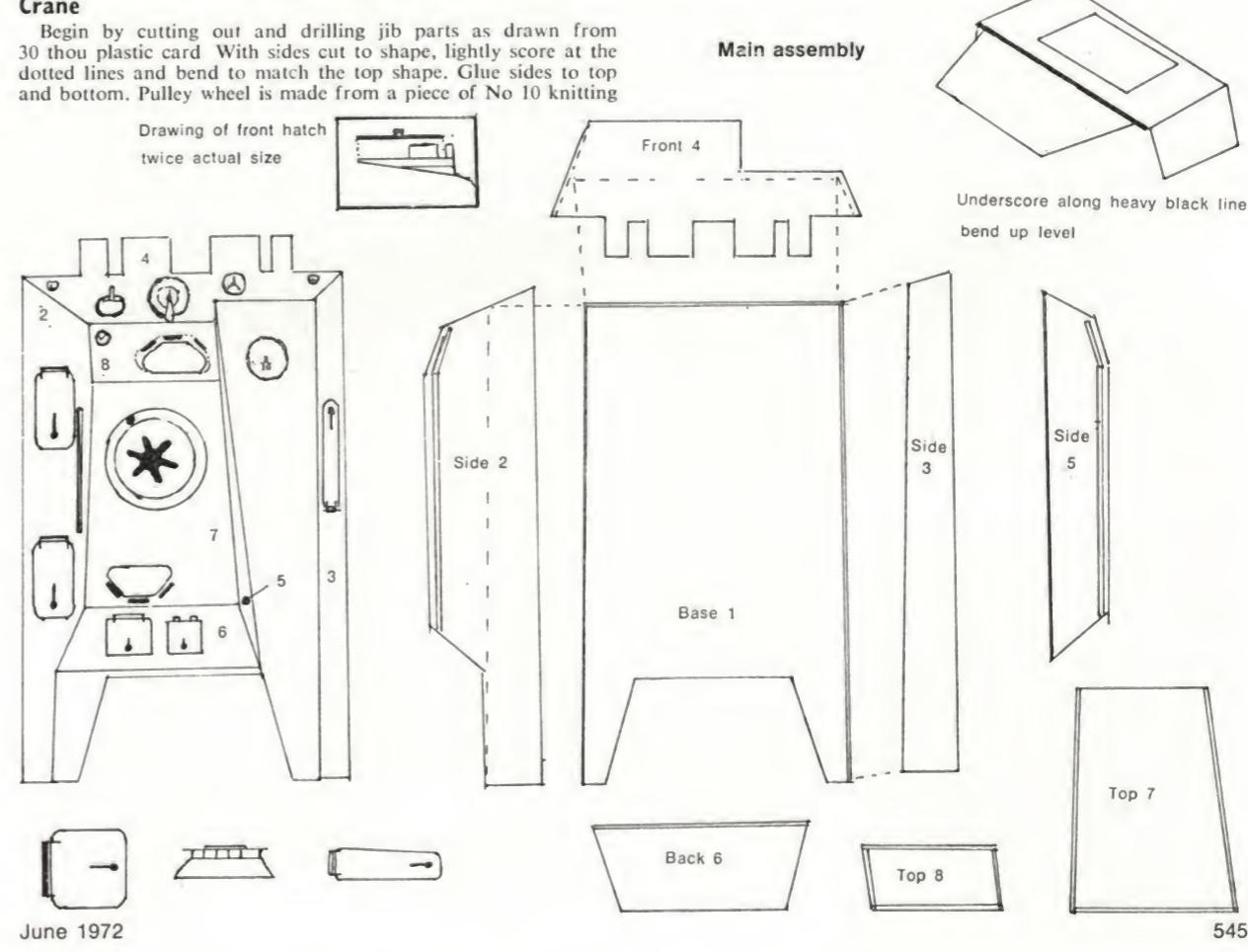
needle with grooves cut round with a fine-toothed saw. Glue this in position. Then cut parts A, B, C and D from 40 thou plastic card, as drawn.

Cut and drill parts F and G from 40 thou card. Parts F and G are jib steadiers brackets. Part E is a three-piece laminate of 40 thou plastic card shaped and drilled as drawn. Glue parts B, C, D, E, F, G and H together to form crane base. Put part A aside for later use. Fix the jib to part E with plastic rod pivot pin.

Jib steadier

The jib steadier is used so that the jib will stay in whatever position that it is put in—full—half or less raised. The jib steadier is made from a piece of plastic knitting needle No 10. With a

Continued on page 579



BOOKS for modellers

Unless otherwise stated, books reviewed are normally available from your local bookshop or from hobby shops which sell books for enthusiasts, including the mail order stockists advertising in this magazine. As a last resort they can be obtained from the publishers whose addresses are given when known. In all cases of mail order, however, suitable postage should be added to the selling prices quoted.

MILITARY

Panzer-Grenadier Division Grossdeutschland.
Horst Scheibert.

£5.50.
Panzer in Russland.
Horst Scheibert and Ulrich Elfrath.
£5.00.
Die Deutsche Gebirgsstruppe 1939-45.
Alex Buchner.
£5.00.

Fallschirmjäger 1939-45.
Rudolf Böhmler and Werner Haupt.
£5.25.
Distributed in Great Britain by
W. E. Hensant Ltd, 228 Archway Road,
Highgate, London N6.

THESE four books are documentary picture histories of some of the German forces used during the Second World War. Only two of the above books have any English translation (*Fallschirmjäger* and *Panzer in Russland*) and are rather stilted and uninformative; one would imagine that someone has done a word for word translation of the German text and not bothered to read it again afterwards, which makes for rather odd reading at times.

The photographs in all four books are of the 'troops in action' type of picture, some of them even recurring in more than one book, but all are of interest, either to the wargamer or enthusiast, as they show some unusual shots not seen before by the general reader in Britain, many of which give a wealth of ideas for diorama and markings work. If you have money to spend and a knowledge of German, the books are worth adding to your collection.

Oudenarde 1708.
Eversley Belfield.
Dettingen 1743.
Michael Orr.
90p each.
Uniforms of the Peninsular War.
Arthur Kipling.
Charles Knight & Co, 11-12 Bury Street,
London EC3.
£1.50.

THE first two of these books are in the 'Battles for Wargamers' series and follow the format of the previous books. They have straightforward accounts of the battles in their titles, together with coverage of the associated campaigns. *Oudenarde* in particular includes coverage of tactics and equipments and organisation in special chapters. As we've said of earlier titles, however, there is little or nothing relating the actual events to wargaming other than a short introduction by Peter Young, the same in all books in the series.

The third title is similar in format to

an earlier book on Malburian uniforms. There are a number of colour plates showing groups of figures, some line drawings, and a brief text describing the uniforms and other details. Coverage is not comprehensive by any means, but most of the major forces are dealt with and the book should be useful for wargamers and military figure converters.

The Encyclopedia of Military History from 3500 BC to the present.

R. E. Dupuy and T. N. Dupuy.
Macdonald and Company Ltd,
49 Poland Street, London W1.
£8.50.

THIS 'tome' should be of interest to any military modeller who has had the frustrating experience of looking for one piece of military information and having to go through dozens of different reference works before finding a tiny snippet of almost useless data. With this book the reader should have no such trouble, within its 1,000 or so pages it packs all the major military events from 3500 BC to 1965 in chronological order, with separate chapters on tactics, weapons and strategy for any particular era. Illustrated with diagrams, sketches and maps and having three indices, this essential book covers most of the basic military information any enthusiast will want to know.

Italian Fascist Daggers.

Frederick J. Stephens.
Militaria Publications Ltd, distributed by
Swordsman Books, 92 High Street,
Redbourn, Herts.
40p each.

HERE is a subject which has, to the best of our knowledge, not been covered at all anywhere else. This soft cover book includes six colour plates. It is only 28 pages long but they are large size with excellent pictures and an authoritative text by an author who is well-known as a specialist in edged weapons. While the Italian fascists had nothing like the variety of edged weapons sported by the Nazis of the Third Reich, there were some interesting designs and weapons enthusiasts will find this a fascinating book.

A new book of interest to soldier fans is *America's Fighting Men, 1607-1864* (New York Graphic Society) which is to be distributed in Britain by Patrick Stephens Ltd from August 31 next. This is a lavish presentation set of 24 prints in a special case together with a book of essays about the subjects illustrated. The prints are in a distinctive caricature style but with very accurate uniform detail. This is a limited collectors' edition of only 1,000 signed and numbered copies, priced at £38.40 per set.

RAILWAYS

Steam in Camera, 1898-1959.
Edited by Patrick Russell.
£2.50.

Salute to the LMS.
Cecil J. Allen.
£1.10.
Continental Railway Handbook: West Germany.
W. J. K. Davies.
£1.20.
Ian Allan Ltd, Terminal House,
Shepperton, Middx.

FIRST of these titles is a splendid and lavish album for the enthusiast whose interest centres on the great days of steam in Britain. It is a pictorial album compiled entirely from the collection of the late Ken Nunn, a veteran railway photographer who started photographing trains before the turn of the century. Coverage is wide and the early pictures in particular will be most useful to anyone modelling the old-time rail scene. There are a few shots of non-locomotive subjects as well. The book is litho printed and the reproduction is not as good as Ian Allan's best, but still very acceptable.

Salute to the LMS is in the board cover 'annual' style of presentation. It is a well-written, straightforward account of LMS history profusely illustrated with well selected pictures. For anyone modelling the LMS who wants background material, this is an excellent buy at its modest price.

The third book is new to us, though published some time ago as one of a series giving the background to various European railway systems. In pocket book size it clearly sets out a basic history of rail operations and then covers such subjects as major routes, operating patterns, types of locomotive and stock, and so on. For anyone running a model layout with the excellent Continental models of German stock now available, this is a 'must'.

Loco Profile 19: Gresley A4s.
Loco Profile 20: American 4-8-4.
Profile Publications, Coburg House,
Sheet Street, Windsor.
40p each.

THESE two additions to the Loco Profiles series well maintain the excellent standards this fine series has established. We imagine that the book on the Gresley A4s should appeal to most readers and it is a most invaluable and inexpensive buy for anyone wishing to detail or otherwise work on any of the several A4 models available.

AVIATION

Spitfire Special.

Ted Hooton.
Ian Allan Ltd, Terminal House,
Shepperton, Middx.
£1.50.

THOUGH there are plenty of other books about Spitfires, there never seems to be an end to the new material which most authors seem able to dig up. This book will please all Spitfire enthusiasts, being mainly a pictorial coverage

Continued on page 569

AIRFIX magazine

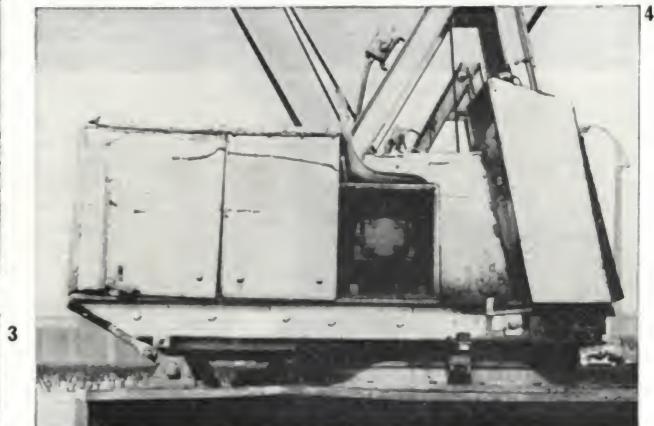
COLES CRANE IN CLOSE-UP

In our January 1972 issue, Gerald Scarborough gave details for making two versions of the Coles Mobile Crane in 1:76 scale. This is quite a complex subject and led to further queries. This picture series should be of value.

By David E. Jane



1
These two Coles cranes are mounted on AEC Matador chassis and are at present in the Tipton Road yard of Ashmores of Dudley Ltd. Colour schemes for the two vehicles are TNR 142H, chassis and cab: RAF blue; crane, generator, radiator and offside cab door: yellow. DMO 95C, complete vehicle: yellow. Both vehicles are to be overhauled and sold for further use, so I would suggest that here is a good chance to make an unusual lineside accessory using the close up views shown here, and Gerald Scarborough's original article. Military enthusiasts should find this useful also as it enables them to super detail their basic model. Photo 1: Detail of crane serial plate, identical on both cranes apart from paintwork, DMO 95Cs being in natural metal, TNR 142H lettering being picked out in black and white.



2
Photo 2: General view of both cranes showing the effects of weather and hard usage. Note the hand spotlight mounted on the cab of DMO 95C and the small hooded tail lights. Also of interest are the triangular windows in the back of the cab for use when backing. Photo 3: Close up of crane jib showing ribbing and hinge detail. At the main hinge can be seen the small quadrant which indicates angle of jib elevation, as well as two of the main junction boxes supplying power to the winches.



June 1972



Photo 6: General view of the two cranes, again note the shielded rear lights on DMO 95C. Photo 7: Close up of generator on TNR 142H. In the background can be seen the supports for the spotlight on DMO 95C. Note also the rod operated trafficator and metal stirrup to help the driver to enter the cab. Photo 8: Close up of crane body without jib showing heavy staining and buckled plates due to hard usage and weathering. Photo 9: General layout of generators and fuel tanks. Photo 10: General view of crane front showing hook secured for travel, barred-in front of spotlight, battered mudguards and painted out service markings. Photo 11: Chassis rear showing tow bar, rear sheave stock, battered mudguard and locating points for rear road lights. Photo 12: Tow bar and radiator detail.

Get every detail right with Airfix



It's the little things—like the opening hatches and elevating machine gun on this Centurion tank—that really make the model!

And that's why Airfix Construction Kits are so fantastically popular.

Every model is accurate to the smallest detail—a perfect replica of the real thing! There are nineteen series each made to a constant scale. Over 300 kits to choose from at prices from 19p. From all good hobby shops, F. W. Woolworth. Ask for the catalogue.

Bottom left: World War I tank. Bottom centre: Lee/Grant tank. Top left: 88mm Gun. Right: Centurion



The world's biggest range of construction kits

PLANES!
Over 150 to choose from, including aircraft from both World Wars, modern jets and airliners.



SHIPS!
Warships from World Wars I and II, as well as modern liners and historical ships.



STOP PRESS
D.H.C.2 BEAVER
This multi-purpose plane—originally designed for use in Canada—has been flown by some twenty air forces. The detailed 72nd scale Airfix kit can be built as either D.H.C.2 or U-6A versions, with wheels, skis or floats. Ideal model for civil conversions.



News, articles, conversions for modelling enthusiasts every month in AIRFIX MAGAZINE. 15p from your model shop or newsagent.

A simple water tower

HO/00 scale scratch-built wooden water tank suitable for any model rail layout

by Michael Andress

THIS is a model of one of several water tanks in the main yards at the Christchurch (New Zealand) railway station. It would be appropriate for a small branch line station, or as an extra watering point in the shunting yards of a large terminus. Though of New Zealand origin, it is typical of similar structures to be found on almost any railway in any country.

My model was constructed almost entirely of balsa wood. This is an easy material with which to work and gives a realistic finish for wooden structures. For painting, I use ordinary water-colour poster paints. These take well on balsa wood and card and can be given a weathered appearance easily. They will not cover cellulose adhesives so it is best to paint all the parts before assembly. I always do this anyway as it gives a much neater appearance, especially when there are small parts of a different colour to the rest of the model.

Begin construction with the tank itself. The sides and ends (shown full size in Fig 2) are cut from 1/32 inch balsa sheet wood and are fitted next. The end boards overlap those at the sides. A 3/32 inch square strip along the centre of the roof between the highest points of the two ends supports the middle of the roof. The roof plan is shown actual size in Fig 4. Allow 1/64 inch extra at the sides for the true roof size, as the roof is slightly curved. It is made from 1/32 inch balsa sheet scribed for planking. A strip of 1/32 inch square wood along the lower border of each side, and of 3/64 inch square wood along the bottom edge of

ends, floor and false roof together as in Fig 3A and glue firmly. The sides are then fitted, overlapping at each end, and a vertical strip 1/32 inch by 3/32 inch added at each end of each side.

In the full-size tank the ends are strengthened by four steel rods which pass through the overhanging parts of the sides and through the vertical strips, to be secured by large nuts. In the model the rods are represented by 1/32 inch square strips rounded off and fitted between the sides; 3/64 inch square pieces of 1/32 inch thick balsa or card are cemented in position to simulate the nuts. These details are all shown in Fig 3B.

The upper trim boards (shown full size in Fig 2) are cut from 1/32 inch sheet wood and are fitted next. The end boards overlap those at the sides. A 3/32 inch square strip along the centre of the roof between the highest points of the two ends supports the middle of the roof. The roof plan is shown actual size in Fig 4. Allow 1/64 inch extra at the sides for the true roof size, as the roof is slightly curved. It is made from 1/32 inch balsa sheet scribed for planking. A strip of 1/32 inch square wood along the lower border of each side, and of 3/64 inch square wood along the bottom edge of



Above: Prototype water tower in the main yards of Christchurch railway station, New Zealand. Opposite page, bottom: View of completed model made from balsa wood.

Fig 2 1/32 inch balsa sheet scored to represent planking. Grain should run from left to right.

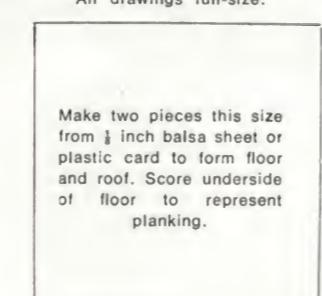
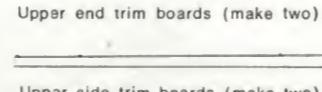
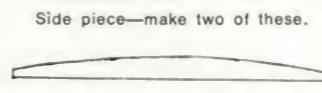
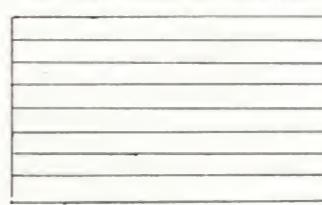
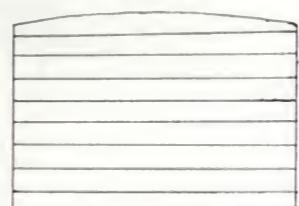
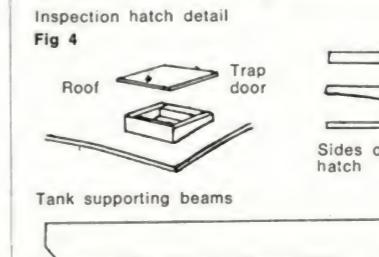
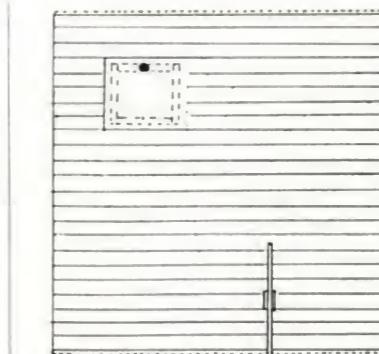
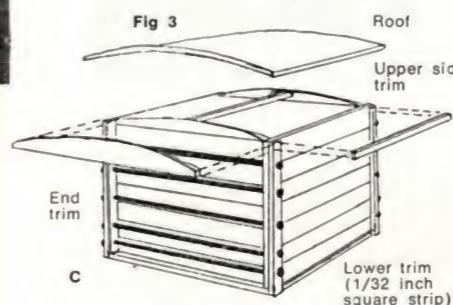
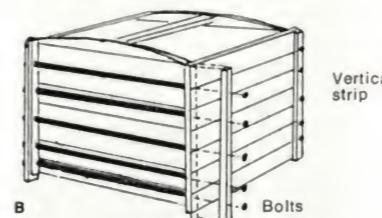
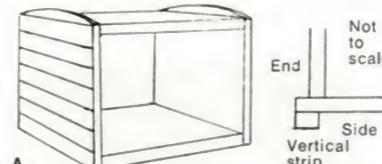
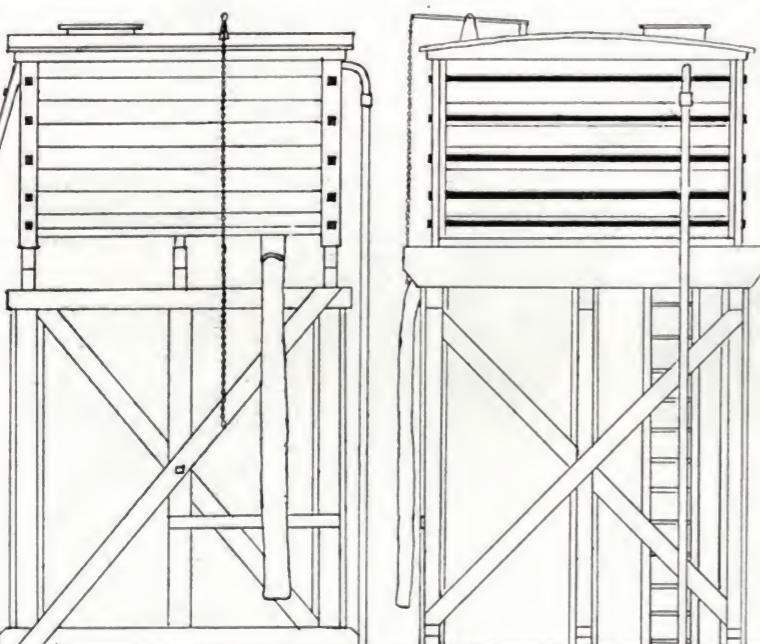
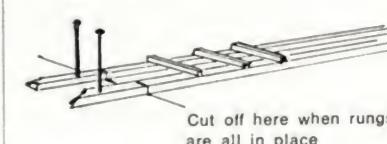
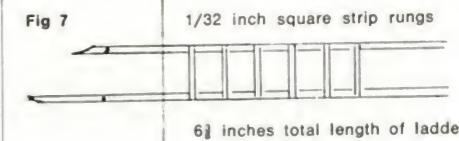


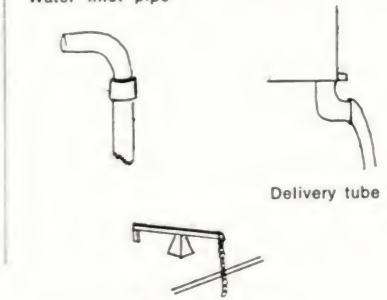
Fig 1



Water inlet pipe



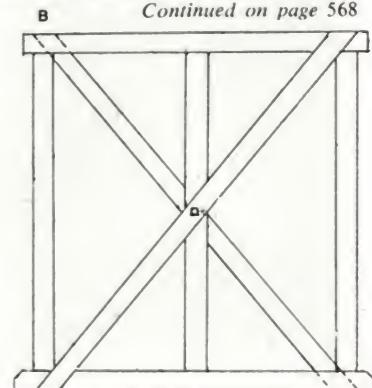
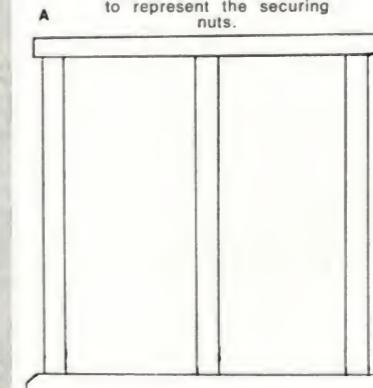
Cut off here when rungs are all in place



same level as the two end beams. We can now set the tank aside and turn our attention to the supporting framework. This may look a little complicated but can be built up easily in sections. First construct the three basic frames. These are built up from 3/32 inch square strip wood directly on the plan (Fig 5A). When the glue is dry, lift off the plan and add the two diagonal braces of 1/32 inch by 3/32 inch balsa strip (Fig 5B).

The main supporting beams, three in number, are shown in Fig 4. They are cut from 1/16 inch sheet wood and are placed beneath the tank as shown in the plans and photograph. As the ends of the tank come down lower than the sides, it is necessary to fit a spacer strip 3/64 inch square across the centre of the undersurface of the floor so that the centre supporting beam will be at the

Figs 5A & 5B: Use 3/32 inch square balsa strip. Build up frames, make three, directly on plan or tracing of same. After each frame is glued lift from plan, sand joins lightly to remove excess glue and add diagonal braces (1/32 inch and 3/32 inch balsa strip) as shown. Add 3/64 inch squares of 1/32 inch thick balsa as shown on each side of the frames to represent the securing nuts.



Continued on page 568

but is not really difficult. Fix the tank, resting on its supporting cross beams, on top of the framework and the model is complete except for the finishing details.

The inspection hatch on the roof is built up from 1/32 inch balsa as in Fig 4, with a slightly overhanging trapdoor of the same material. A pin head (cut off leaving a short length of the shaft to anchor it) can be used to represent the handle for opening the door.

The ladder is made from 1/32 inch square balsa stock. Cut two pieces longer than the length of the ladder and hold them in place on a plan of the ladder (Fig 7) by a pin through the excess strip at each end. The rungs can then be cut to length and glued in place. If the two long lengths are unduly mobile in the centre, a few pins at each side of them to hold them steady, will make the job easier.

The water release is built up from scrap balsa and a length of fine chain (see plans and photograph of model). The water inlet pipe (which is best added



Uniform details for the Airfix 54 mm scale figures

A special feature in which model soldier expert D. S. V. Fosten explains colours and facings for the 1815 uniforms

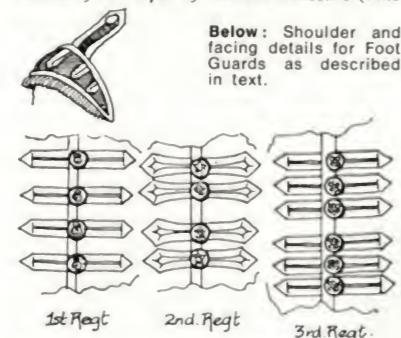
NUMEROUS readers have written to us in the past few months commenting on either the painting details, or clothing details, as supplied with the first two Airfix 54 mm scale figures. Various conflicting reference books have been quoted which in turn have sometimes caused extra confusion. We've published some of the letters received, including Mr Haythornthwaite's in the last issue. To round off the correspondence on this subject we asked D. S. V. Fosten, well-known British Model Soldier Society member and author, to make his comments on the matter. His observations appear below:

To start off with let us consider the uniform of the 10th Hussar figure as described on the packaging and painting instructions of the Airfix figure.

Mr Haythornthwaite is of course correct, the uniform described is not that worn at Waterloo. The 10th Hussars had taken their tall brown fur caps with the red 'fly' or bag to the Peninsular Campaign but this type of headdress was not suited to hard campaigning and in 1812, at about the same period that the Light Dragoons changed their dress fur-crested leather helmets for shakos, similar head-dresses were issued to the 10th. These were covered in red cloth as described by Mr Haythornthwaite. In Schaumann's book *On the Road with Wellington* he records that a Lt Charles Jones was wearing a 'red shako' in the spring of 1812. The Regimental History puts the change in facings from red to blue as 1810 but it appears to have been much later than that. Trimen states that the 10th changed their facings from yellow to red in 1811 but retained silver lace (white for NCOs and troopers) until the change in blue facings in 1814-1815 when gold (yellow for NCOs and troopers) was introduced. The change must have occurred only a short while before the regiment left for Belgium as the Army List for



1815 gives red facings and silver lace. The evidence for red shakos being worn at Waterloo is reasonably strong. There are two paintings by Dighton, one in the Queen's Collection and one in the possession of the Marquis of Anglesey. Mr Haythornthwaite's description tallies with both of these. There are also sketches by Sebastian Norblin in the French National Library showing a similar shako and clearly indicating the black 'fall' or turned up back peak. Added to these references there is a water colour sketch in the Brussels Royal Library which was copied some years ago by the late Wynand Aerts. This drawing (by a man named Rubens) was alleged to have been drawn from life and was part of a preparatory work for a painting of the battle. Mr W. Y. Carman also confirms the red headdress in his standard work *British Military Uniforms from Contemporary Pictures*. Little evidence of horse furniture exists. Mr Haythornthwaite has carefully described the schabracka carried by officers in the Dighton paintings. Two further scraps of evidence regarding troopers and NCOs are worth mentioning. The late S. M. Milne, who was a very prolific collector of uniform detail of the British Army had an old water colour of a trooper of the 10th Hussars (This



sketch even further complicates the issue by showing a black oilskin cover to the shako!) with blue facings, yellow lace including the 'frame' and with a horse having the saddle covered with a buff sheepskin with red edging and a dark blue round valise behind the saddle and under the sheepskin with RXH on the ends in yellow and a blue cloak rolled over the withers. Sebastian Norblin also has a sketch showing buff sheepskins but with a yellow edge and a round blue valise lettered on the ends in white '10' and with a white edge piping. This is probably an old pattern before the facing change. The Airfix description is therefore of the 10th Hussars before the Waterloo campaign and has the full dress 'busby' head-dress and a parade schabracka.

The queries raised concerning the dress of the Foot Guards can be more easily answered. The Guards were organised in the same manner as the Line Infantry that is to



Above: Coldstream Guardsman as made straight from kit. Foot of page: 10th Hussar, both models as made from the basic kit.

say in Battalions, each of which was split into 'centre' or 'battalion' companies and the élite flank companies known as 'Light Infantry' and 'Grenadiers'. All three regiments wore the red coat with blue facings and with white plain worsted tape around the collar, along the cuff edges, down the front of the buttonhole side of the coat, along the bottom edge and down the edges of the turnbacks. The shoulder straps were also edged with this tape. The shoulders of the flank company jackets were decorated with 'wings'. Unlike the Line Regiments who had these wings in the same colour as the coat (red) the Guards had the wings in the facing colour blue. The wings were edged all round with a white worsted tape and had short white fringes. The blue part of the wing was barred with loops of the white tape in the same manner as the fronts of the coat the points of the loops being on the outer (fringe) edge. This was different to the Line Regiments who had strips of the regimental lace laid across the wings usually diagonally. The buttons on the fronts, the cuffs and the skirt pockets were set on at regimental spacing ie even for the 1st in pairs for the Coldstream, and in three for the 3rd. The pattern looping was also different for all three regiments. The 1st had point ended loops, the Coldstream 'bastion' loops and the 3rd point ended. The cartridge pouches and the knapsacks of the Regiments were marked with the badges of the Corps. The 1st the Garter, cypher and crown, the Coldstream with the Star of the Order of the Garter, and the 3rd the Star of the Order of the Thistle. The Grenadiers of all regiments wore the bearskin cap for full dress (but not on campaign). This was black bearskin with a white plaited cord looped around with pendant tassels on the right side descending just below the level of the cap. The front of the cap had a semi circular brass plate which, no doubt, had regimental devices on it. On the left side of the cap was a white feather. By the Waterloo period the bearskin cap no longer had a red cloth patch at the rear but it is likely that a small brass replica of the regimental device appeared just above the edge at the back below the plaited cord. The Light Infantry company had shakos with green plaited cords and green tufts. It is likely, but not certain, that they wore the brass shako plate with the regimental device and a small white metal bugle horn beneath it. Some Line Regiments had the regimental number with a bugle horn beneath. The

SPACE SAVING MODELLING

Simple ideas for wall decoration by H. H. Wills

HOW often do modellers find themselves looking at the latest attractive kit with two sets of transfers, wondering which one to make or whether to buy two kits? Buying two kits can be expensive, but often the greater problem is space, where to display or store the model when it is finished.

I have tackled the problem in two ways. My first attempt was making kits with a small BA bolt cemented into the bottom and fixed with a nut to a large piece of framed pegboard with mirror plates for wall hanging. The large hole on the mirror plate was sawn through so that the pegboard could be lifted down from the wall easily for change of models and cleaning. With the board painted a pale blue and frame polished wood it has served well and is admired by visitors.

Even so, there is only space for about 20 small model aircraft and there remained the larger aircraft and helicopters. My HP/400 is free standing, as are one or two others, but the arrival

Above, right: Two models made from one kit, completed in the two sets of transfers provided and mounted on a board for display. Below: Royal Navy Whirlwind helicopter; only one half of the kit has been completed, leaving the other half to be used for an alternative version which can be mounted in the same manner.



Uniforms—continued

breast plates on the bayonet belt also differed, the 1st being rectangular, the second and 3rd oval. Most of these details are taken from the Charles Hamilton Smith plate of the Grenadiers of the Regiments in his *Costume of the British Army 1812*. These Hamilton Smith figures are in 'State Dress' with white breeches and long white gaiters. There is another plate in this series which shows Guardsmen in service dress in which case they have the grey/blue trousers worn inside calf length black gaiters. In the Dighton paintings the Guards are shown wearing trousers over the gaiters and with black oiled skin or cloth covers over the shakos with no devices on them. Sergeants have gold lace and loops and edging to the collars, cuffs, turnbacks and coat fronts and gold chevrons. The Guards NCOs had crimson waist sashes without the central stripe in the facing colour worn by Line Regiments.

Reader R. W. A. McCormick sent us this picture of an alternative version of the Queen Mary trailer featured in our February 1972 issue using a Matador towing unit instead of the Bedford OY version. Note the realistic load—the nose section of a Lancaster. In the background can be seen a Coles Mk 7 Mobile Crane, more details of which appear in our pictorial article on page 547 in this issue.



Medieval Walled Town

CONVERSION PROJECT FROM THE AIRFIX
ROMAN FORT SET

By Terence Wise

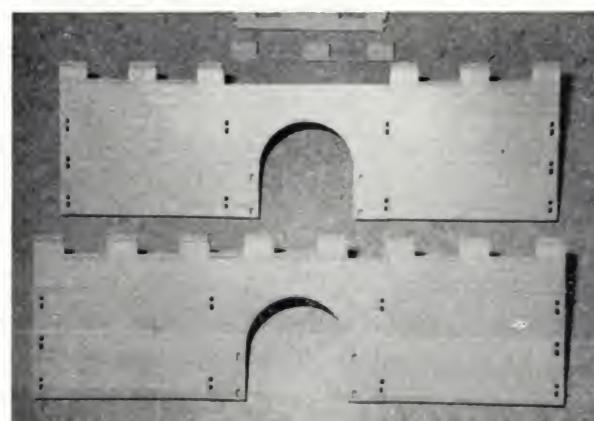
REFER to Fig A from last month (reproduced below) as work commences on the actual construction.

The Towers: Parts required for these are 4×2 (rear wall and gate). Part 2 is the only part in the kit which can provide a curve and so, although the result is a D-shaped half tower rather than a semi-circular one, unless you wish to scratch-build your towers, we shall have to first carve up four of our parts 2. They are each cut into five pieces: cut off the two sections of wall flanking the gate panel, using the side of the panel to guide the saw. Make sure you get a straight cut through the wall walk, here and in all future cutting through wall walks, by turning the piece over and finishing the sawing from the rear. Put the four gate panels to one side. Measure $1\frac{1}{2}$ inches in from the straight edge, just cut on the two side panels and cut these panels into two pieces; a straight section of wall $1\frac{1}{2}$ inches long and a curved end. Put the straight sections to one side for the east and west walls. Photo 1 shows a part 2, with above it another part 2 cut into the five sections just described.

Take two of the curved sections and cut off all lugs. Clean up mould marks on the rear of the parapet, file the sawn edges to ensure a good fit, and cement the two halves together. The wall walk acts as a guide to obtain the correct curvature when cementing. Should the wall walk join be rough, cover it with a piece of thin plastic card, shaped as shown in Fig A (actual size). When the cement is set, score through the join line to clean up the mortar lines. Repeat this procedure three more times to make up the four corner towers.

card, $2\frac{1}{2} \times \frac{1}{2}$ inches, scored to look like planking. These bridges could be speedily removed to isolate a captured

Left: A part 8 adapted to form the outer face of the East Gate. At the top is the part 8 with tower face removed and the piece of parapet ready to be inserted in the gap; below is the new part—note the gap in the parapet to the right of the arch which requires a piece of coping stone. **Top of page:** The East Gate assembly.



3



4

section of the wall.

There are several alternatives for filling the backs of the towers. The simplest method (discovered after several messy failures!) was to make up a piece of plastic card, $2\frac{1}{2} \times 1\frac{1}{2}$ inches, scored with stone courses and mortar joints, and cement this across the back. An attempt to do the filling with Mod Roc over a framework was not so successful. This latter idea was meant to represent a reverse side of rammed earth, which needed to have a slight slope rather than a vertical face. All was well until I tried to fit the sections of walling to each side of the towers; the angled rear face prevented a close fit. Another method is to fill the tower with Plaster of Paris, with a sloping rear face, and trim this gradually to slip into place between the two wall sections when they have been finished. The diorama maker, not worried about having the pieces separate, could cement the towers to the walls and so do the filling with the minimum of trouble.

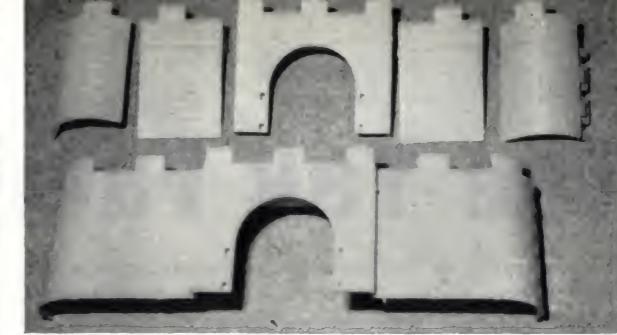
The East Gate: Parts required are 1×8 (front wall and gate), 1 gate panel from a cut up part 2, 4 gates, 2×16 (lean-to face), 2×17 (lean-to roof).

The town, as shown in plan, has four gateways, the customary layout in medieval town defences. Of these I decided to make the east and west gates of minor importance and they are therefore relatively simple to construct. The part 8 forms the basis for the section, giving an external gate face with three inches of wall on each side. The only alteration needed is the removal of the upper part, over the gateway. Do this by sawing down at each side of the panel through the lug holes, and then scoring with a sharp blade, following the mortar line one course below the windows, so that the wall here is reduced to the same level as the crenellations in the wall sections flanking the gate.

From the piece just removed, ie, the top half of the tower face, cut off the parapet flush with the coping stones which top each crenellation. From this section of parapet remove a merlon from one end, together with $1/10$ inch of a



2



Above: A part 2 cut into five parts for various uses. See text.
Left: This is what you are building. West Gate is at left.

The roof sections (part 17) are then cemented to wall walk and lean-to face.

The ends furthest from the gate are filled with a piece of plastic card; Fig B shows the actual size. This should be given 'beams' of thin strips of plastic card as indicated by the figure. At the end nearest the gate a small triangular filler is needed; the actual size is given in Fig C. This is cemented in position from inside the building.

Finally, a $9 \times \frac{1}{4}$ inch strip of card is glued along the wall walk, resting on the side panels at the outer ends. If there is any gap between lean-to roof and wall walk, this can be filled with Plastic Padding. Photo 5 will help a good deal in explaining the construction of these lean-to buildings.

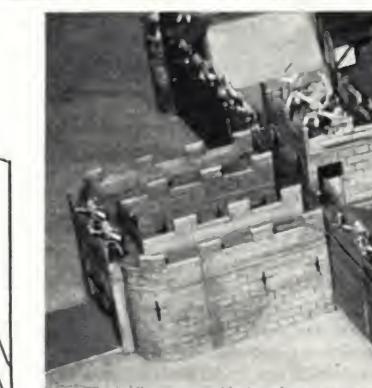
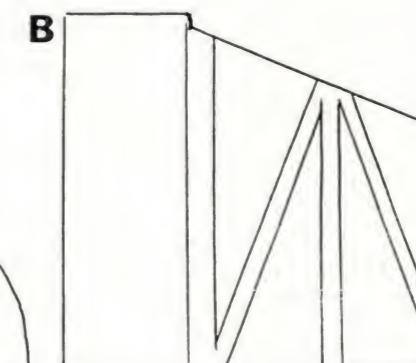
The West Gate: Parts required are 1×8 (front wall and gate), 1 gate panel from a cut up part 2, 4 gates, 2×16 (lean-to face), 2×17 (lean-to roof). Repeat the procedure exactly as described for the East Gate section. See photo 6.

Next month we finish off all four wall sections and make the more complex North Gate with its forbidding barbican.



5

Drawings and photographs keyed to references in text



6

The Yak Family

A whole range of Yak models can be made from the Yak-9D kit by Airfix, all easy enough even for beginners to conversion work

By Brian Spooner

HERE are not many kits of Russian World War 2 aircraft available to modellers at present. Frog have produced the SB-2 bomber, and Revell have the 1-16. There is an IL-10 available from the Czech firm of KP. Fortunately, Airfix have come to the rescue with the IL-23M, Pe-2, and Yak-9D. The choice of the latter is indeed fortunate since it gives modification possibilities for four other Yak fighters, the Yak-1, Yak-3, Yak-15, and Yak-7. The Yak-7 is so very similar that it hardly warrants the word modification, but the other variants each have some physical feature which alters their outlines enough to make them look different. References to the Yak series of fighters can be found in Vol 3 of the series *War Planes of the Second World War* by William Green, published by MacDonald, and Series 2 of *Famous Fighters*, also published by MacDonald.

Yak-1

The Yak-1 first flew in March 1939. Along with the Lagg-3 and Mig-3, the Yak fighter formed a new generation in fighter design which had its origin in the 1938 programme. It showed a marked improvement over the elderly I-153s and I-16s which it was to replace, and won its designer a car and 100,000 roubles. It entered production in 1939 and entered service late in 1941. Although the first production aircraft differed little from the prototype, progressive improvements were made on the production line. Late production models were very similar to the Yak-9D without the cut-down rear fuselage. It is this which is the main feature for modification and forms an ideal beginner's conversion. You will also need a second Yak-9D canopy. The parts will not be wasted if you make more than one variant.

Stage 1: Glue together the two fuselage halves after painting the interior, and adding cockpit detail (if desired).

Stage 2: Cut the rear part from one Yak-9D canopy and retain the forward portion (do not throw away the other portion, it will come in useful when you attempt the Yak-3 conversion). From the second canopy the middle section is cut out and cemented to the first part with liquid cement.

Stage 3: Try this new canopy on your assembled fuselage and fit it by filing down any excess plastic at the rear of the cockpit.

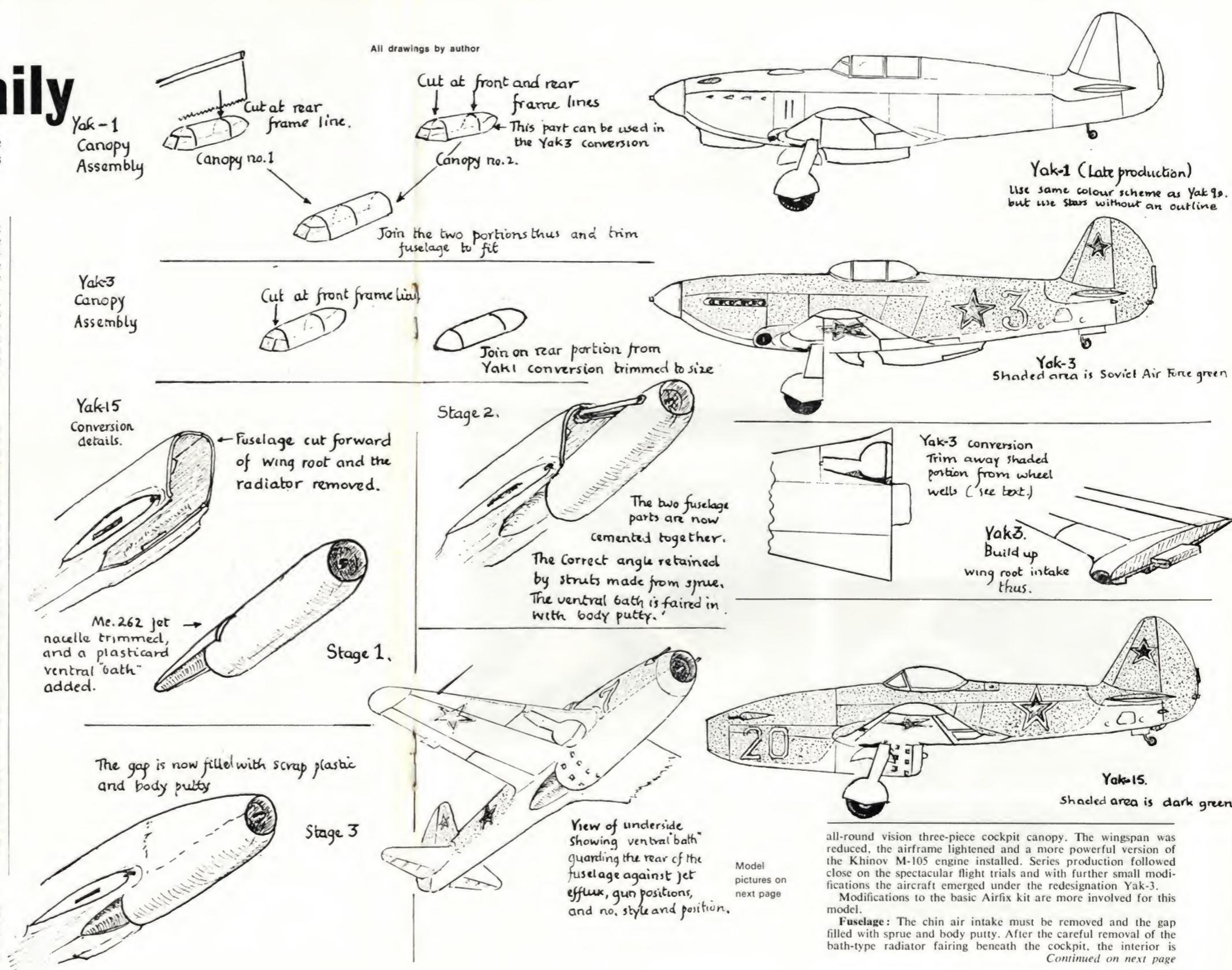
Stage 4: The rear fuselage is then built up with scrap plastic and body putty, and similarly the chin air intake. A second gun trough is carved on the right-hand side of the fuselage and a gun blister added.

Stage 5: Complete the aircraft as per kit instructions, and coat the modified fuselage in clear dope and talcum and rub down. Finish: Aircraft in available photographs indicate a Dark Earth and Dark Green finish, with Sky undersurfaces. The camouflage scheme appears very similar to that given in the Airfix kit of the Yak-9D. National insignia appears on the fin, fuselage sides and the undersurfaces of the wings. The red stars do not appear to have any outline, either yellow or white. Winter camouflage was off-white overall with red wing-tip panels that extended half the span of each wing with plain red star insignia in the usual places.

Yak-3

Development of the Yak-3 was undertaken in 1941 when the Soviet Air Forces demanded a low altitude fighter capable of upholding air superiority over the front line. Originally designated Yak-1m (m for modification), changes involved the cutting down of the rear fuselage (as in the Yak-9D) and the production of an

All drawings by author



Yak Family—continued

painted, cockpit detail added, and the fuselage halves cemented together. The radiator bath parts are cemented together, and repositioned on the fuselage as on the plan, and the contours are then built up with body putty. A second gun trough is carried on the right-hand side of the fuselage and a gun blister added. A set of engine exhausts from an Airfix P-51D were used in place of the kit exhausts on my model since they approximate to those actually used. You may have other scrap parts equally suitable.

Wings: The wheel wells are modified by straightening the aft edge (as in the diagram). The wing halves are then cemented together and new, enlarged wing-root air intakes built up with scrap plastic and body putty. The wingspan needs to be reduced by 5/12 inch overall. This can be done by cutting 5/24 inch (just under $\frac{1}{4}$ inch) from each wing-tip and then re-shaping them.

Canopy: This canopy can be made by moulding, using the method previously described in this magazine, or made as in the diagram from two Yak-9D canopies.

Finish: Yak-3s were painted in a variety of colours, including the standard overall green upper surfaces with Sky-Grey undersurfaces. One aircraft at least was pictured in doped silver. An aircraft numbered 12 of the Normandie-Nieman squadron appeared to be doped Dark Earth and Green. The Free French insignia appeared on the fin and the tricolour was painted on the tail and spinner. On a flight of Yak-3 aft of the national insignia, which was outlined in white, the code Nos 67, 3 and 58 appear.

Yak-15

During the closing months of the war, the Russians were able to evaluate the captured Jumo 004B Turbojet engine. It was clear that Russia then lagged behind her allies in respect of jet aircraft development. To counteract the advances in jet aircraft design and operation, Yakolev adapted the Yak-3u fighter airframe to accept the German Jumo turbojet, changing very little of the structure, and arching the main spar over the jet pipe. The resultant machine was a real-life 'conversion' used to familiarise pilots of the Soviet Air Force with the handling characteristics of jet aircraft and was designated Yak-15.

Modification: There are two methods for modification here. One can either retain the fuselage, and graft on to the nose of it

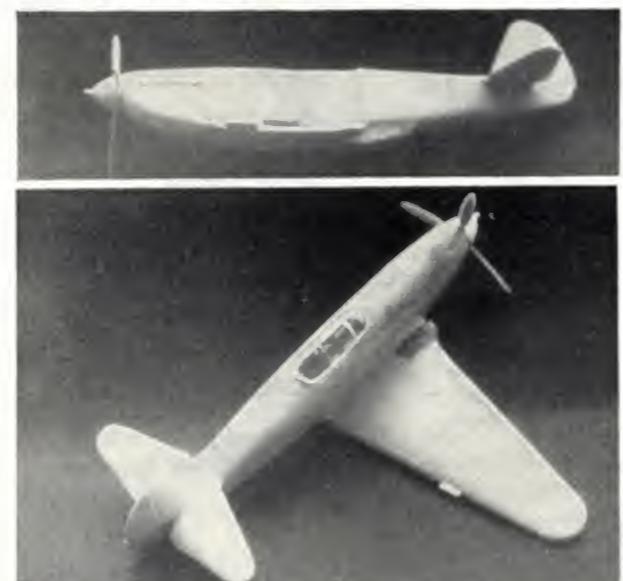


Two views of the Yak-1 model under construction showing the rear fuselage build-up with scrap or spare plastic and covered with plastic putty.



The Yak-15 looks radically different from the piston-engined Yak models yet it uses basically the same airframe. Author's model shows what an attractive model results from this conversion.

an Airfix Me 262 turbojet nacelle, which is exactly the right size, or make a new fuselage from wood, and only graft on the tail-planes, fin and rudder. On the original I chose the latter, using close grained pine rather than balsa because of its ability to withstand denting, etc. The other method described in the diagrams is, I think, as easy, and possibly less time-consuming as it retains the wing plugs and acceptance hole as a way of fixing the wing. After converting the fuselage, the kit is assembled as per the Yak-9D. This gives the early variant of Yak-15; later models had a tricycle undercarriage and revised fin outline. Unfortunately the canopy demands a moulding job, or at a pinch the canopy from the Me 262 can be converted.



Two views of Yak-3 under conversion from the Airfix Yak-9. Note altered canopy placed in position and wing root modifications. Canopy is not actually cemented down until model is completed and fully painted.

Finishing: The Yak-15 photos available show the aircraft to have been painted in the standard Soviet Air Force scheme of Dark Green upper surfaces and Sky undersurfaces. White outlined national insignia were carried in the same positions as other Yak fighters, and numbers were carried aft of the fuselage insignia or on the nose as shown in the diagram. For all three conversions, Dri-Dec sheets Nos 27 and 28 are very useful.

Using the Airfix Yak-9D kit in the ways described above, you can double the number of Russian aircraft available. Five variants including the basic moulding can be made. Most of the Soviet colour schemes used paint shades very similar to British colours. Those who want to be sure, however, will find precise Soviet shades in the Modelcolor paint series imported by BMW Models.



SWISS GUARDS

An attractive and easy conversion in 54 mm scale based on the Airfix Coldstream Guards kit

By R. E. Wood

body putty, trimmed to shape when dry. Don't forget to ruffle the edges (Fig 5).

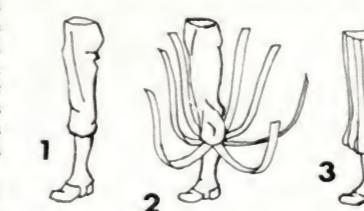
The left arm is the bent arm from the kit. Trim the forearm to represent a sleeve tight to the elbow, but leave a cuff about $\frac{1}{16}$ inch wide at the wrist (Fig 6).

The right arm, again the bent one from the kit, needs a little more work. The forearm must be cut off and replaced at a more acute angle, and the hand is cut off and replaced palm downwards. The lower arm and the sleeve to the cuff are shaped in the same way as before (Fig 7).

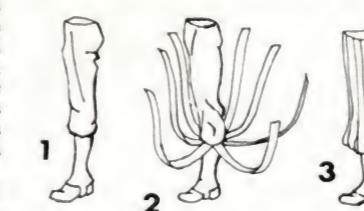
The upper sleeves are made in exactly the same way as the pantaloons. This time, six strips of the thin plastic card are used. Fix them just below the elbow, and after painting the upper arms red, curl them up and cement them at the shoulders again allowing for a sag at the elbows to simulate the bagginess (Fig 8).

The head and helmet are probably the hardest part. Cut off the sideburns and ears, and build up the helmet crown with body putty, bringing it down the sides of the head as far as the ears (Fig 9). Allow plenty of time for the putty to set really hard, before adding the brim and crest.

These are cut from 10 thou card, to the patterns shown (Fig 10). The crest is a sandwich of three pieces. Notice the upward curve on the brim at the back



1



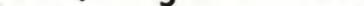
2



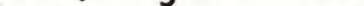
3



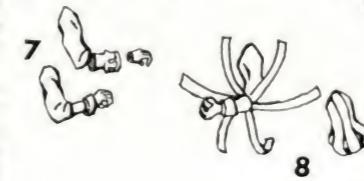
4



5



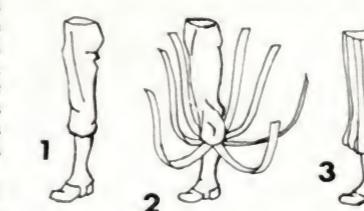
6



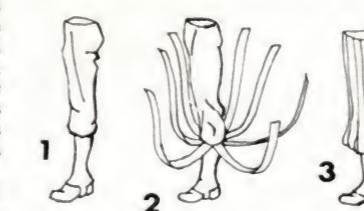
7



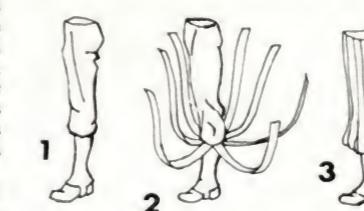
8



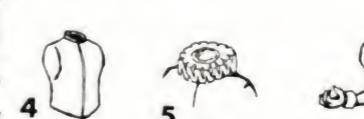
9



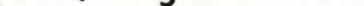
10



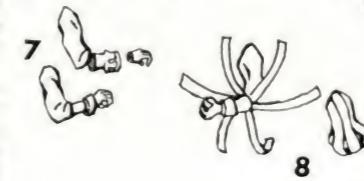
11



12



13



14



Above: The model from the front shows the effectiveness of the stance with one foot leading, as if on the march. Careful painting is necessary to make a good job of the striped uniform. Details can be seen in the drawing opposite.

and front. When it is fixed, a little sanding and the use of body putty will achieve this. It might be a good idea to leave the lower edges of the brim untrimmed, and give them their final shape after they are fixed in place. A blob of putty makes the plume. Fluff it up while it's still soft with the point of the knife. Two narrow pieces of card make the cheek-pieces (Fig 11).

The sword and belt for the model are made next. Page 9 of *World Uniforms in Colour* has a good illustration to use. The bayonet-sheath from the kit becomes the scabbard, and 10 thou plastic card makes the strap. The drawing shows how the bayonet itself becomes the hilt, in two pieces (Fig 12). The bayonet socket

Continued on page 563

Auto Blinda AB 40

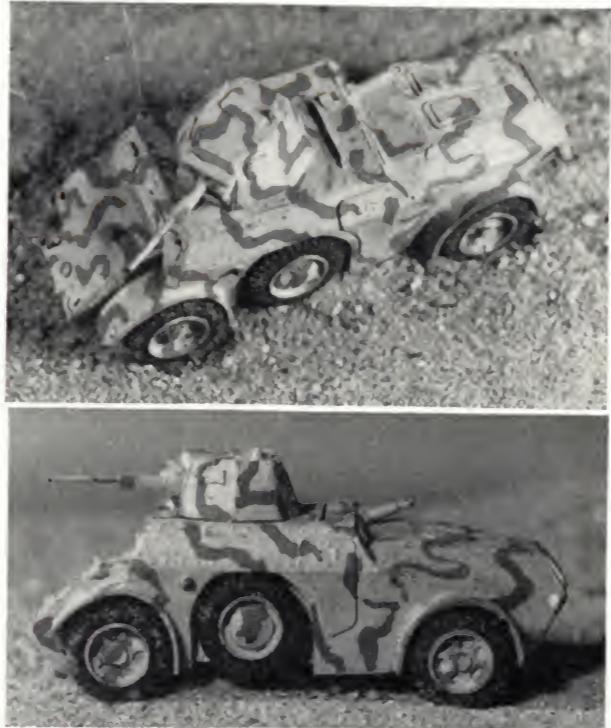
Models of Italian World War 2 AFVs are virtually non-existent in 1:76 scale; the AB 40 is the easiest to make from scratch if you follow Gerald Scarborough's instructions

ONE of the few Italian armoured cars produced in World War 2, the AB 40 was the first in a line of very similar models. It was designed as a high speed, manoeuvrable, fighting vehicle and came into service with the Italian Army units in 1940-1 and gave useful service in the Western Desert. Power was provided by a SPA 110 hp engine driving four independently sprung road wheels, giving it a top speed of about 45 mph. Four-wheel steering gave good manoeuvrability with small angular movement of the wheels. Steering was possible from either end and the gearbox provided for six speeds forward and four speeds reverse. Two spare tyres, on detachable rims, were carried, one each side recessed into the hull, and these were free to revolve, giving some support, though not drive, in soft going. The vehicle was crewed by a driver (sometimes two were carried), a rearward-facing gunner, and what must have been a very busy commander/gunner in the turret, which was equipped with a 20 mm Breda and an 8 mm machine gun. The turret was fully rotatable through 360 degrees. The rear gun had 28 degrees of traverse and must have been very useful when quitting the scene of battle in a hurry. The rear hatch to the turret was for gun installation purposes, not access, which was either through the two side doors or the turret top hatch. An interesting feature was the hinged flaps over the headlights which were in the hull front.

To model this rather complicated shape is quite a challenge but my drawings and the following construction details should enable anyone with reasonable skill and a little patience to make it. Another complication is the mass of rivets, but if you keep to the thinner plastic card, these are simple to indent with a compass point. This does mean that the actual construction needs additional care, and cement must be used sparingly.

Start by modifying four roadwheels taken from the Airfix '88' kit; these have to be altered by part filling the spaces between the spokes. To do this, I pressed the wheels face down halfway into a block of soft Plasticine and simply filled in the backs with Plastic Padding. When

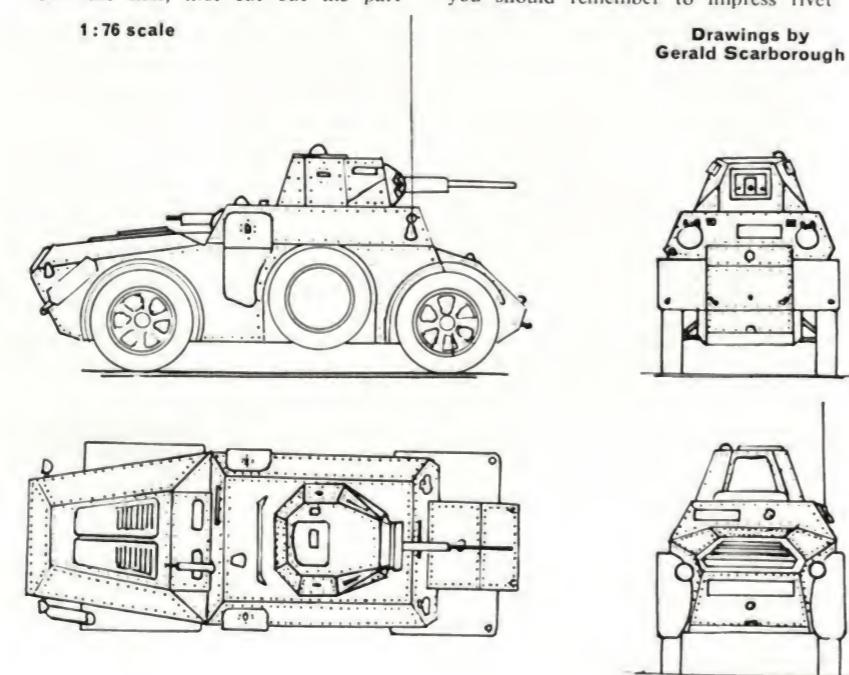
Right: Two views of completed model. Note in particular the neat modelling of the distinctive wheel hubs which are adapted from wheels in the Airfix Flak '88' kit. Embossed rivets are most effective.



this has set, remove them from the Plasticine and clean off any odd bits that still adhere to the wheel; they should now look like Auto Blinda wheels. For the 'spares', fit a plastic card disc to the outside, slightly conical, and not right up to the rim.

For the hull, first cut out the part

1:76 scale



AIRFIX magazine

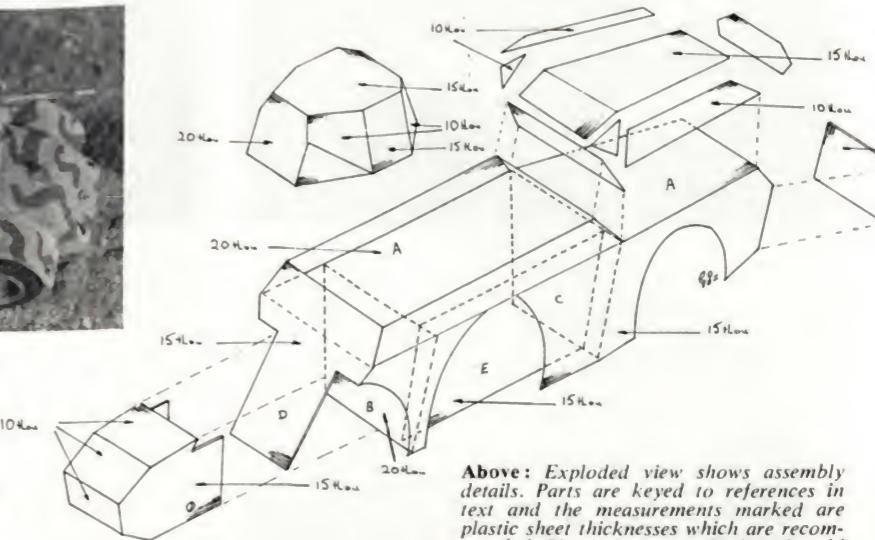


Above: The simple camouflage scheme greatly enhances the finished model. The rivet detail does not always show up and could very well be omitted by beginners.

detail and score in any panel lines where appropriate. You will see from the drawing that part 4 bends down slightly to the rear on which the engine cover is built, so just score lightly and form to correct shape. Next the two bulkheads B and C should be fitted vertically to A on the underside, together with the two rectangular inner hull sides E, which will give rigidity and provide a location for the 'spare' wheels.

The two side pieces can now be cut out and these are quite difficult as so much has to be cut away to allow for the wheel apertures, the section above the rear wheels calling for particular care to avoid distortion. It is in fact better to mark out the sides on the plastic card, impress the rivets, cut out the wheel apertures and then cut round the outline. Again score at the bend line and form this to shape so that the top will fit, using a bulkhead to get it true if you wish. Follow this with the T-shaped front marked D on the sketch and the rear of the fighting compartment E, and the fighting compartment top.

The two sides of the nosepiece, which go right back to the internal bulkhead B, are now added, but make certain they are parallel. In fact, the four nose faces can all be added at the same time to preserve the squareness. To complete the basic hull, add the two rear faces and then



Above: Exploded view shows assembly details. Parts are keyed to references in text and the measurements marked are plastic sheet thicknesses which are recommended. Plastic (or styrene) sheet is sold in most model shops under various brand names, such as Polykard and Plastikard.

from stretched sprue, and all periscopes, vision blocks, tools, lights, exhaust silencer, etc, from scrap plastic or the spares box. The wheels can be mounted on cocktail stick axles through holes drilled in the nose side pieces at the front and in either simple strip supports or backing plates cut to fit inside the rear one-piece mudguard.

The turret I made from plastic card but if you are handy with balsa wood you could use this instead. For a plastic card turret, build up on a base, adding the front and rear faces, which can be held in place with internal formers, then the top, followed by the two sides and, finally, the 'corners'. Mantlet and gun from scrap, vision ports, hatch covers, etc, can then be cemented in place to complete.

Finish of my model is in Humbrol Afrika Korps Desert Sand with random striping of a reddish brown. Basic sand is, of course, the usual North Africa colour scheme but this does vary from freshly applied to very pale bleached or cream colour with brown and green mottling as an option.

TOOLS FOR MODELLERS

BADGER 200-2 Air Brush Complete Outfit	£18.91
X-ACTO New Razor Saw Blade 1 1/4", length 6 1/2"	38p
Hammer Set with 6 Heads	£1.25
LITESOLD Soldering Iron 240v 25w 3/16" bit	£1.72
12v 10w 3/32" bit	£1.65

H. A. BLUNT & SONS LTD

Mill Hill Circus
London NW7 4RN
Phone 01-959 2877

38 Fretherne Road
Welwyn Garden City
Herts. Phone 26884

SALE!!

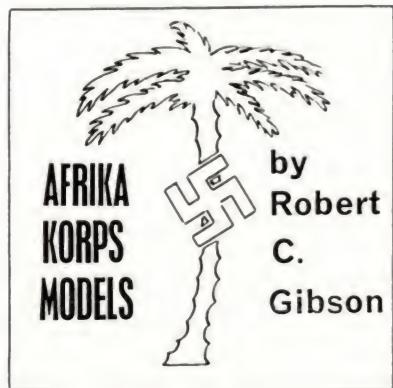
THIS MONTH'S BARGAINS

HELLER BOMBERS — half price
AIRFIX ME109E £1.50 List price £2.20
FALLER BUILDINGS — half price

Come and see the best display models in the area at

MODEL SUPPLIES
328 Brockley Road, London, S.E.4
Tel: 01-6926292

Agents for Revell, Riko, Bellona, Seagull Card Models, Profiles and large selection of Books



2: Engineers

THE normal function of Engineer units in the German Motorised and Panzer divisions was to assist the advance of the fighting troops by clearing paths and overcoming obstacles in their way. The principal weapons used for this task were demolition explosives, flamethrowers and bridging equipment.

In the fluid movement to and fro of the desert battles, the Afrika Korps engineers became fortress builders and layers of minefields in defence, and fortress breakers and mine clearers in attack. The bridging equipment was left behind; the flamethrowers too.

Organisation: The Engineer Battalion (Pionier-Bataillon) in the Panzer and Motorised (Panzergrenadier) Division were organised on a slightly different basis to one another.

Diagrams A and B show the organisation of a Panzer-Pionier Bataillon (Armoured Engineer Battalion) which would be contained within the Panzer

Above: Two views of the same pair of models converted and painted as Afrika Korps engineer troops. Prone figure is from the Airfix German set and the man with the mine detector is from Tamiya's 1:35 scale range. Note shading painted in, very necessary on light coloured figures.

divisions. Note that the bridging column and assault boat units would not be on the Afrika Korps battle strength.

Diagrams C and D show the organisation of a Motorised Engineer Battalion such as the 90th and 164th Light Divisions might contain. Again, bridging and boat units would not be on strength for 'Afrika' units.

The Panzer I is used by the armoured formation would likely be of the Munitions-Schlepper I variety, which was a Panzer I chassis with box frame 'cab' and load-carrying platform, used to carry engineer materials and munitions in this instance. The Panzer II was probably standard but with command radio equipment.

It will be noted in the more comprehensive breakdown of equipment given in Diagram D, such equipment as power-saws and air compressors are mentioned. These were used to great effect in the respect as he can be used to do a variety of jobs with minimum alterations.

The 54 mm figure is the machine-gun loader from the German Infantry set with the ammunition box removed. He can now be used for a variety of mine-laying or mine-removing tasks. This particular figure has been given a faded field grey tunic with Continental insignia (as opposed to Afrika Korps), drill trousers, jackboots and a standard helmet with Wehrmacht insignia. Such variation in clothing was not abnormal; indeed, in the cold desert night, a non-tropical tunic might be very welcome out in the minefields! If a tan-coloured helmet is desired, remember that no standard insignia existed; variations of the DAK 'palm and swastika' were used, if anything was painted on it at all.

Modelling

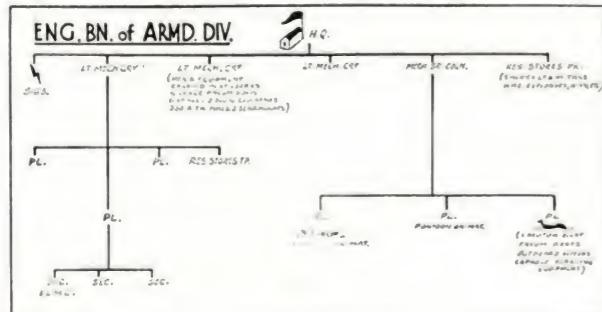
The 20 mm figures are catered for this month by three figures from the Afrika Korps set marketed by Airfix. They have been used to depict a group of engineers

clearing a minefield.

The crawling rifleman simply has the rifle removed and replaced by a 1 mm thick 'slice' of hard sprue to represent an anti-tank mine. The advancing rifleman with rifle at hip has the rifle removed and replaced by a 15 mm long piece of 20 thou diameter plastic rod, tipped by a mine sensor cut from 1 x 3 mm 20 thou plastic card and rounded off. Wires and earphones may be added from scrap if desired. The third man is standing guard over the other two: all are painted in khaki drill uniforms of varying stages of bleach with drab webbing and black piping; boots are black or brown. These three figures are only a sample of what can be done with the set as many other types of engineer work can be modelled with a little thought and some odds and ends from the scrap box. The surrendering figure is particularly useful in this respect as he can be used to do a variety of jobs with minimum alterations.

The 54 mm figure is the machine-gun loader from the German Infantry set with the ammunition box removed. He can now be used for a variety of mine-laying or mine-removing tasks. This particular figure has been given a faded field grey tunic with Continental insignia (as opposed to Afrika Korps), drill trousers, jackboots and a standard helmet with Wehrmacht insignia. Such variation in clothing was not abnormal; indeed, in the cold desert night, a non-tropical tunic might be very welcome out in the minefields! If a tan-coloured helmet is desired, remember that no standard insignia existed; variations of the DAK 'palm and swastika' were used, if anything was painted on it at all.

A





Get this 24th scale SUPER KIT!

The first of the new Airfix Super kits flies in—the Spitfire Mk 1A!

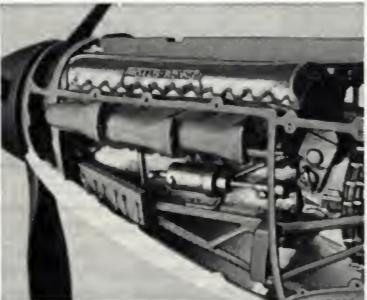
With 150 detailed parts, here is perfection in aircraft modelling!

This magnificent 24th scale model features a superbly detailed cockpit, Browning machine guns complete with ammunition boxes and a super detailed Rolls-Royce Merlin engine beneath removable panels. A propeller motorising unit is available.

This new Airfix Super kit is undoubtedly one of the finest aircraft kits ever produced and a 'must' for all keen modellers.



Superbly detailed cockpit



Rolls-Royce Engine detail



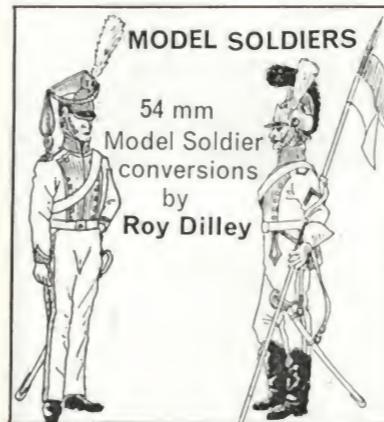
The Browning guns



Get every detail right with Airfix



AIRFIX magazine



Above: Four of the new Britains Deetail figures representing the American Civil War. These figures are ideal for conversion work as they are made of PVC plastic, some ideas for this are described below.

COLOUR DETAILS

Fig 1

Cap and cover: White with black peak.
Shell-jacket: Red, with collar and cuffs of regimental facing colours (eg White for 32nd Foot of Lucknow). Brass buttons.
Trousers: Blue or white with narrow red stripe down outside seams.
Sash: Crimson.

Belt and slings: Buff.
Holster: Brown or Black leather.
Sword scabbard: Black with gilt fittings.
Boots: Black.
Haversack: Off-white.

Build up Kepi and add neck cover. Add sash over left shoulder.

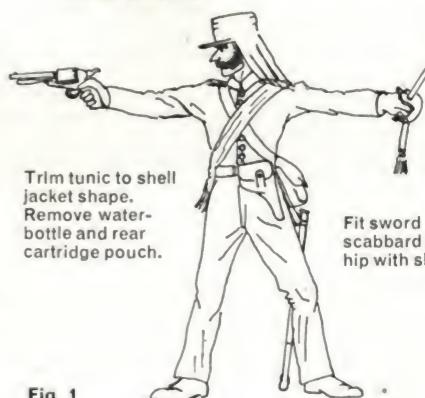


Fig 2

Helmet: Buff—tea-stained.
Jacket: Dark blue with black lace frogging.
Breeches: Dark blue with red stripe down seams, or khaki.
Boots: Black or brown leather.
Belt and holster: Brown leather.
Scabbard: Black with gilt fittings.
Haversack: Off-white.

Trim tunic to shell jacket shape. Remove water-bottle and rear cartridge pouch.

Fig 1

possible. An example of this sort of practice would be the uniting of a hard plastic sword within the hand of a metal model, epoxy adhesive providing the necessary bond, rather than the laborious beating out of a pin for the sword blade. With a guard made up from fuse-wire, the whole thing being soldered into position. This simple case demonstrates the advantages to be gained by the use of modern adhesives. Of course, as he gains skill and confidence, a modeller may well want to face the challenge presented by the pin, fuse-wire and solder technique,

Continued on page 578

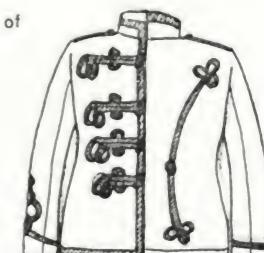
Below: American and German infantrymen from the Deetail range; as can be seen, animation is of a high order and with a little more work adding pieces of equipment they will make up into exhibition standard figures.



Fig 4: Detail of lacing on front and rear of blue infantry patrol jacket. All lacing is black mohair. Design on cuff is of the Austrian-Knot pattern.



Fig 3: Shape of 'Oliver' type water-bottle and straps



Make an FE8

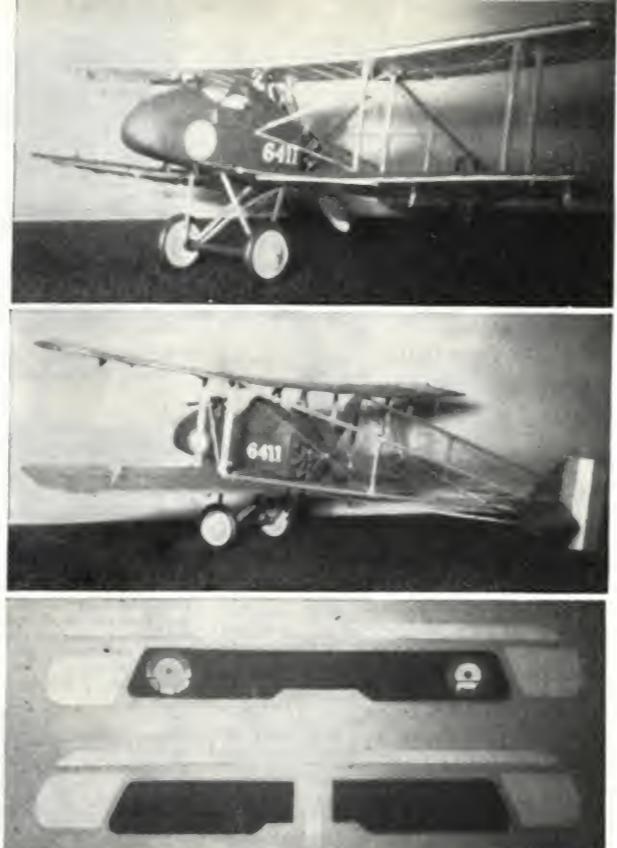
Advanced conversion of an unusual aircraft by Tony Woollett

BY making simple mouldings from plastic card it is possible, with the aid of existing kits, to not only make modifications, but also to make completely different types of aircraft. It is the purpose of this article to illustrate this point. Two basic kits are used, in this instance the Avro 504K and the DH4. From these I have produced a vastly different aircraft of the same period. I have set out to use as many parts as possible from the kits and only used plastic card and the spares box as a last resort. This month I deal with what is to my mind an aircraft immensely pleasing to the eye—the FE8.

Designed at the Royal Aircraft Factory, the first prototype made its first flight in October 1915, but due to manufacturing difficulties, the first Squadron No 40 was not equipped with the aircraft until August 1916, and a second Squadron No 41 reaching the Western Front in October. By this time the Germans were using Albatross DIs and DIs and the FE8s were hopelessly outclassed. Nevertheless, 40 Squadron used them until March 1917 and 41 Squadron were not re-equipped with new aircraft until July 1917.

Fuselage The fuselage was moulded as previously described in the Fox Moth article in the November 1971 issue of *Airfix Magazine*. This is basically a very simple shape to mould. Do not attempt to mould the headrest integrally with the fuselage, just mould the basic shape adding the headrest at a later stage of the construction. When you have mated the two fuselage halves—remove the rear face of each fuselage half and from 30 thou plastic card cut out a new rear bulkhead and cement it into one half of the fuselage, also drill out the hole in the rear

Below: General view of components taken from the DH4, 504K, and the spares box.



Above, top to bottom: Two views of the completed model made from parts of a DH 4 kit, note the rigging made from fine gauge wire and the twin tail booms from plastic sprue. View showing the amount of trimming needed on the DH 4 wings to get the correct shape for the FE 8.

bulkhead to take the rotary engine shaft: the shaft should be a *tight* push fit in the locating hole. Then cut out the cockpit shape. Continue by detailing one half of the fuselage by adding a false floor, seat, rudder bar control column, instrument panel, throttle control, and fuselage struts in each fuselage half. Referring to the plan cut out the step in the port fuselage half; I did this with the tip of a modelling knife, finally shaping it with a very small half-round file. The two halves can now be stuck together and left to set.

Taking the DH4 fuel tank, this can now be cut and filed down to form the headrest and when satisfied, cemented in position, finally adding filler to fill in the front end of the headrest. When everything has set, smooth down joint, line with flour paper and/or wet and dry. Scribe panel lines on fuselage. Make up from plastic card, and fit and cement, the two ammunition boxes either side of cockpit.

Paint Paint fuselage and add roundels and numerals. Cockpit edge and headrest is painted to represent leather and step is edged with Humbrol Steel colour.

Wings The cord and span of the FE8 is much smaller than the DH4, so it is now necessary to reduce their size by the following stages:

(1) By careful pressure bend the dihedral out of the top wing. Detach two of the locating bars from the DH4 interplane struts and the bars from centre section struts and cement these bars into the two in-board and centre section locating slots on the top wing. Allow to set for twenty four hours. At the same time fill all strut locating holes and when dry smooth to contour of wings.

(2) Cut away from the leading edge of each wing, a strip $\frac{1}{8}$ inch wide. Then referring to the plan, cut away the four wing tips, so that you are left with wings roughly cut to shape. With file and flour paper bring the wings to their correct shape by rounding off leading edge and wing tips. The centre section cut out needs enlarging on both wings and should be done at this stage referring to the plan constantly.

(3) The ailerons should now be lengthened and their angled ends cut with a modelling knife at the same time filling and making good the old ends.

(4) Remove all control horns.

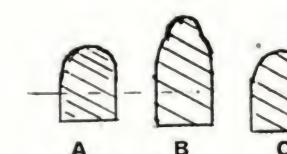
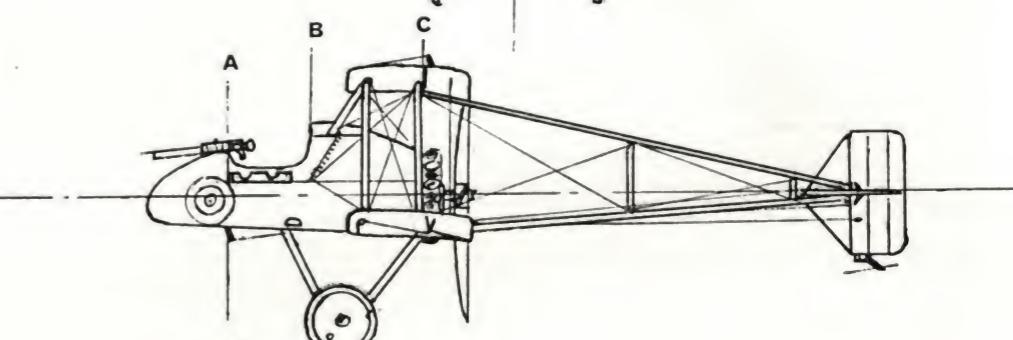
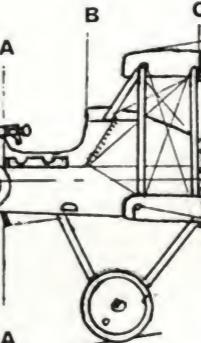
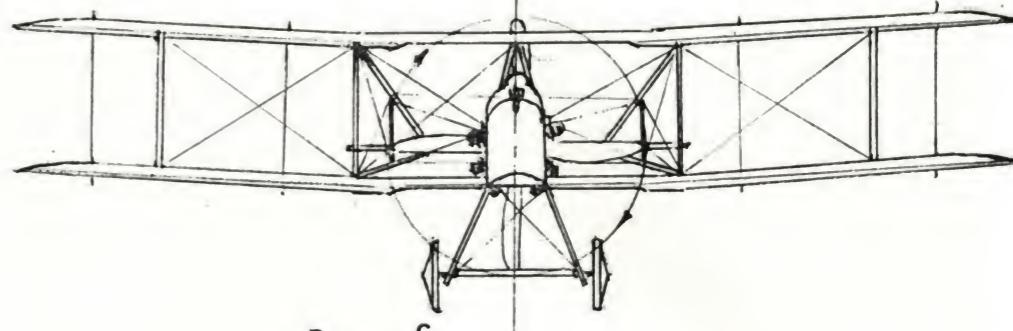
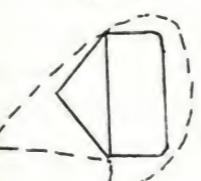
(5) Add a wing rib to the top wing straight across the exact centre of the centre section. I did this with Borden Wood Stopper (waterproof) rubbing it down to shape when set hard.

(6) You now have to set the dihedral angles on both wings. Referring to the plan, score the top side of each wing at the point where the dihedral commences. Score quite deeply and then score lightly on the undersides. You should now be able to bend each wing to the required angle without breaking. Run cement into the score lines and leave to set with a weight on each centre section, and supports under each wing tip, checking that the amount of dihedral is correct and identical on each wing. Allow twenty four hours to set.

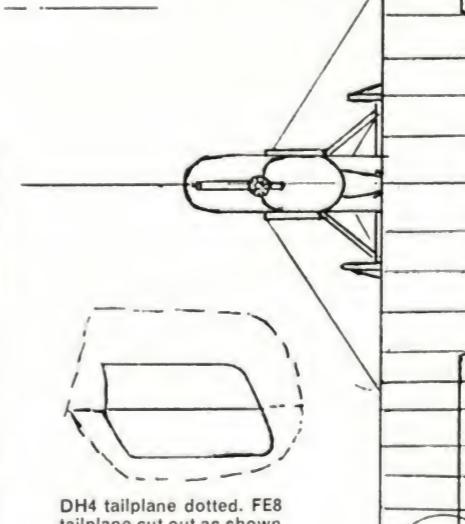
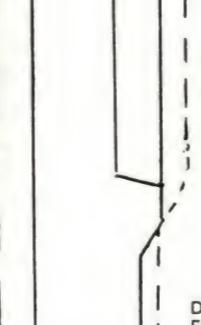
(7) Now cut away the centre section of the bottom wing. Cut away a portion slightly less in width than the fuselage. This will leave the bottom wings slightly

Continued on page 568

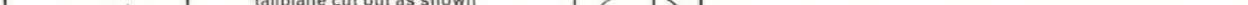
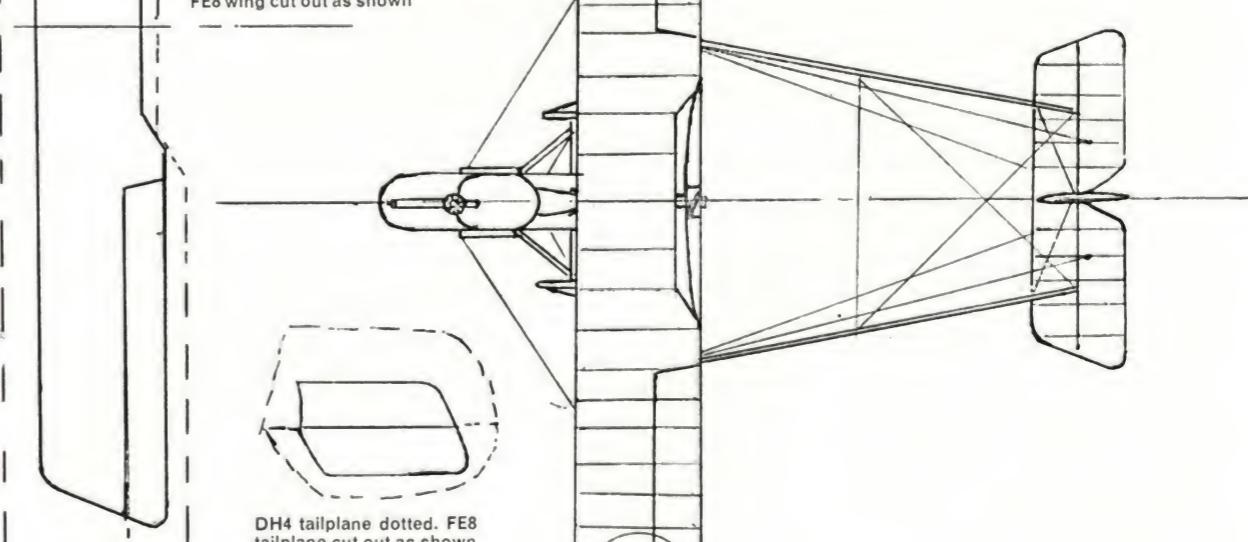
DH4 fin and rudder shown dotted. Fin and rudder cut out as shown.



DH4 wing shown dotted. FE8 wing cut out as shown



DH4 tailplane dotted. FE8 tailplane cut out as shown



FE8—from page 566

oversize in overall span. You can then bring them down to their correct length by careful filing.

Paint At this stage the wings top and bottom should be painted and roundels added. When the paint is dry, carefully drill out the ten strut locating holes on the underside of the top wing. Add the eight control horns to the top and bottom surfaces of the wings.

Struts The two V centre section struts are made up from the 504K undercarriage V struts. I made myself a simple right angled set square depth gauge, from plastic card and by placing this under and against the rear face of the fuselage with the height of the rear V strut marked on it I was able to accurately cut and chamfer the rear V strut to size. Similarly the front V strut was trimmed down to size. The eight interplane struts (504K) were trimmed to size (refer to plan) and shape and stuck to position in locating holes in the undersurface of the top wing. Check for alignment.

Paint When set, paint struts.

Tailplane and Rudder Remove the fin and rudder from the DH4 fuselage and using the hinge line as a common datum line, you can fill it down to the new FE8 fin and rudder. A paper pattern is a useful guide to ensure you do not file away too much. Smooth down to final shape with flour paper and add tail-skid, made up from plastic card and sprue.

Paint At this stage paint the Red, White, and Blue rudder stripes. In a like manner shape the tailplanes (DH4) again using the hinge line as a common datum. Smooth to final shape with flour-paper. Locate and cement port and starboard tail planes into position on to rudder ensuring that they are at right angles. Set aside to set thoroughly. When dry, paint fin, tailplane and elevators and leave to dry.

Booms Make up from plastic rod, two sets of booms. Chamfering the rear ends of the booms, so that the tailplane will just slip through. Set aside to dry. Paint when dry.

Engine and Propeller Taking the 504K Rotary engine, remove all of the inlet tubes.

Paint Colour the whole engine with Airfix Gun-metal. When dry, using very fine stretched sprue, add a push rod from the middle of the front of the crank-case to the top of each cylinder. Push-rods should be silver-coloured.

Turning to the propeller (DH4) continue the hole already partially drilled so that you have a hole drilled completely through the propeller boss. Reduce the diameter, referring to the plan to check correct dimension. Slice off the retaining collar from the propeller pin (DH4) and insert the pin through the prop boss, so that it protrudes 1/32 inch at the rear of the propeller and cement and leave to dry.

Paint The airscrew should now be painted to represent dark laminated wood, when dry about a third of the length of each blade leading edge from the tip can be painted to represent the brass sheathing, which is apparent on a number of FE8 photographs. Prop boss should be painted Airfix Gun-metal, front and rear. When all paint is dry, prop shaft should be located and cemented into the locating hole in the engine.

Undercarriage This was made up using the (504K) axle and the V struts were made up from plastic rod. The Vs were cemented outboard of the collars on the axle and left to set. (These collars can be painted to represent the 'bungy' elastic used on the undercarriage.)

Main Assembly Carefully scrape the paint away from the four points on the fuselage where the interplane V struts locate. At the same time scrape paint away from sides of fuselage where bottom wings locate. Cement interplane V struts in position on fuselage and leave to set. When set, gently lower the top wing on to the V struts and carefully butt each bottom wing against fuselage. You can then mark on each bottom wing the exact strut location points. In this way you ensure that when assembled all struts will be perfectly vertical in front elevation and in line in the side elevation. Drill out the eight marked strut location on the bottom wings. Dry fit the top wings on to the V struts and butt the bottom

wings to the fuselage, checking that top and bottom wings line up accurately in front elevation. Make any necessary adjustments by trimming the bottoms of the interplane struts with a modelling knife. When satisfied apply cement to the strut locating holes in top and bottom wings and to the two centre-section ends of the bottom wings. Lower the top wing into position on the V struts and then locate bottom wings into position against the fuselage sides, finally locating the struts into position in the locating holes in bottom wing. Check that alignment is correct (it should be if your dry fitting was done accurately). Set aside to dry completely for 24 hours.

Take up your tailplane/rudder assembly and carefully scrape away paint from boom locating points. Now cement the two booms into position at the rear of the two inboard rear interplane struts and allow to stand for five minutes or so. Then gently slide the tailplane/rudder assembly into position between the two open ends at the rear of booms, cement by running liquid cement on to the four locating points. Check alignment. Set the whole assembly aside to dry. Support where necessary. Do not be impatient, and give the assembly 24 hours' drying time; it's worth it!

Paint You can now turn your attention to the wheels (504K). Before painting score with a knife the wheel discs to represent spokes through the fabric covering. Paint the tyres and when dry paint wheel discs. The easy way to paint wheels is to impale them on a cocktail stick; this enables you to rotate the wheels whilst holding your brush still. With the assembly thoroughly set carefully scrape paint away from four locating points on bottom of fuselage and cement undercarriage into position. Do not stick wheels into position yet, I prefer to do this when all rigging is complete. We now come to the rigging. A lot of people fight shy of bi-planes because they feel they do not have the necessary technique to rig their models neatly. The undermentioned method I find the easiest and also has the advantage of producing the best scale effect. You will require the following:

40 SWG Fuse Wire	A metal rule
Modelling knife	Dividers
Tweezers	Long darning needle

A smooth surface (Formica or Glass)

Starting at the most inaccessible point first, measure the length between the location points with your dividers. Now take a length of wire and place beneath a metal ruler on the smooth surface, gently roll the wire backwards and forwards beneath the ruler and you will produce a perfectly straight piece of wire. Measure off your length with the dividers. Place between your tweezers and test dry fit into position.

For sticking in position I have, until recently used an adhesive called Pafra Cement, but unfortunately this is no longer on the market. However I have found that Polystyrene cement does the job just as well.

To place the wire in position, you merely deposit a small blob of cement at one location point with needle and with the tweezers, place one end of the wire into the cement. Place another blob of cement at the other location point, and then gently swing the wire into contact with the cement. Continue working round the model until complete. I in fact timed myself on the FE8 and completed all of the rigging in four hours: Two, two hour sessions, and I might add, with hardly an oath to disturb the household!

The model can now be completed by pushing the engine/prop assembly into position on rear of fuselage and by painting (gun-metal) and cementing the Lewis gun (DH4) into position on front of cockpit.

Add the two control horns below fuselage and finally cement wheels into position.

Check list of components:

DH4: Wings, tailplane, rudder, petrol tank, Lewis gun, propeller, pilot's seat, propeller retaining shaft (No 7).

Avro 504K: Engine, struts, wheels, V-struts (No 34 and No 33), axle.

Colour scheme

Humbrol RFC Green: Upper surfaces of wings, and tailplane, rudder, nacelle, axle.

Humbrol (114) BR Coach Stock Cream: Undersurfaces of wings, tailplane, and wheel discs.

Humbrol (115) BR Loco-Hauled Stock Lining: Struts, booms.

Roundels: Were taken from Micro-Decals Ric-C Sheet.

Numerals: Blick Dry Print.

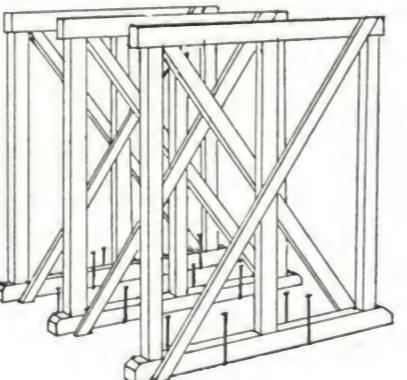
Water tower—from page 551

after the model is in place on your layout is made simply from 3/64 inch diameter wire bent at the upper end and with a wrapping of paper $\frac{1}{16}$ inch wide below the bend to represent the junction fitting (Fig 7). The water outlet is cut from $\frac{1}{8}$ inch balsa wood and rounded to simulate a short right angle bend pipe. The delivery tube is made from a piece of newspaper (from the margin where there is no printing) painted with watery black poster paint, then formed into a flattened tube and glued. The outlet pipe is painted black and fixed in position as on the plans, and the tube is glued to its lower end. Add a strip 1/32 inch by $\frac{1}{16}$ inch between the upright supports behind the delivery tube as in the plan, and the model is complete.

The colour scheme can be chosen to suit your own personal preferences. The original tank is painted red oxide, but I used cream and green to match my other railway structures.

This model would be particularly suitable for the beginner as it is easily and quickly constructed and could be used on any layout, large or small, where steam power is still in use. It is original in appearance and makes a change from the various kit-built water towers seen on many layouts.

Fig 6: The three frames are held vertically by pins alongside each base. When aligned correctly the two diagonal braces at each end are added.



AIRFIX magazine

Books—from page 546

which deals with unusual markings or versions and a miscellany of various aspects of the famous fighter. There is some really excellent colour art and this all goes to make up a useful book for modellers and air enthusiasts alike.

The World's Helicopters.

Joan Bradbrook.
Bodley Head, 9 Bow Street,
London WC2.

£1.40.

Boeing: An Aircraft Album.

Kenneth Munson and
Gordon Swanborough.
Ian Allen Ltd, Terminal House,
Shepperton, Surrey.

£2.25.

A NOTHER title in the 'Putnam Wor'd Aeronautical Library' series, this is a good basic book on its subject, though not likely to appeal to the knowledgeable enthusiast. The series is intended for young enthusiasts and children and, seen in this light, it is a fine book which would make a good gift for the junior enthusiast. There are plenty of pictures and the subject is well explained.

Warplanes of the First World War:

Fighters (Volume 4).

J. M. Bruce.
Macdonald & Co Ltd, 49 Poland Street,
London W1.

£1.25.

THIS is the latest edition in the

Macdonald pocket book series which is gradually covering all World War 1 aircraft in a similar style to the series on World War 2 aircraft which already exists. It is a splendid little book, covering many obscure but interesting types. Some idea of the extent of the work as a whole can be seen when it is realised this present volume runs only from B to G, so there seems to be some way to go yet before the series is complete. There are pictures, drawings, and text in the usual Macdonald style.

The Dragonflies.

£2.50.

Before the Storm.

£2.50.

Robert Jackson.

Arthur Barker Ltd, 5 Winsley Street,
London W1.

£6.50.

THESE are two nicely written books which, while not revealing anything really new in the way of reference material, tell the stories they set out to tell in a competent and readable way. *The Dragonflies* tells the story of helicopters and autogiros, from the early

ATTENTION ALL RAILWAY MODELLERS!

HOW TO GO RAILWAY MODELLING

By Norman Simmons

Fifth in the 'How To Go' series, this book has chapters on layout planning, electrical wiring, track laying, locomotives, carriages and wagons, scenery and operating. Written by an expert Airfix Magazine contributor, it also explains the organisation of the hobby, the clubs, the manufacturers, etc. 216 pp, 8 $\frac{1}{2}$ x 5 $\frac{1}{2}$, over 211 illus, case bound. £2.60 net, plus 14p p & p.

Order from booksellers, model shops or from the publishers,
Patrick Stephens Ltd, 9 Ely Place, London EC1N 6SQ (01-405 2297)

United States Aircraft is a new updated edition of the original 1963 book. It covers all types alphabetically so that there is a good mixture of familiar and little-known types. Minor types are dealt with in a couple of appendices, as are airships, while preliminary chapters deal with colour schemes, procurement, and brief air arm histories. As we've said of a number of previous Putnam volumes, if you can afford only one book on the subject of USAAF and USAF aircraft, this is the one to buy.

Fighter Tactics and Strategy, 1914-1970.

Edward H. Sims.
Cassell & Co Ltd, 35 Red Lion Square,
London WC1.

£3.40.

THIS very readable volume covers virtually the whole story of air-fighting from the pilot's view. In the process the book takes in the exploits of most of the well-known air 'aces' and outlines their achievements and their contributions to the development of tactics and fighter deployment over the years. Some of the material in this book will be new to the average enthusiast and is well worth reading.

SHIPPING

Ocean Liners of the Past No 5: The French Line Quadruple-Screw Turbo-Electric Liner 'Normandie'.
Introduction and epilogue by
Leslie Reade.
Patrick Stephens Ltd, 9 Ely Place,
London EC1N 6SQ.

£6.20.

THIS book is the fifth volume in the excellent 'Ocean Liners of the Past' series. It follows the same format as its predecessors, consisting mainly of a facsimile reprint of a Souvenir Number of *The Shipbuilder and Marine Engineer* published, in this instance, to celebrate the maiden voyage in 1935 of one of the most famous French liners of all time, the French Line's magnificent *Normandie*. Original copies of these Souvenir Numbers have been highly treasured collectors' items for some time and yet each book in this series offers even more than the original because, added to the text of the Souvenir Number is an illustrated epilogue which includes a useful chronological account of the working career of the vessel. There are over 230 pages and scores of pictures and drawings. There are eight gatefold plans of the ship.

To: Patrick Stephens Ltd, 9 Ely Place,
London EC1N 6SQ

Or: Your leading bookseller or model shop

Please send me one copy of *HOW TO GO RAILWAY MODELLING*. I enclose my remittance of £2.60, plus 14p post and packing.

NAME _____

ADDRESS _____

(Block caps please)

A/672

NEW KITS AND MODELS

Wiad: Harbour Craft

In relative terms there has always been a shortage of model boats suitable for scenic use with the popular model railway and military scales. One or two plastic ship kits can be chopped up and adapted to waterline for the purpose, but there are limits to what can be done because most ship kits are of big vessels and the scale is too small or the period too early. Wiad, the German kit firm, has just brought out a very neat range of small river and harbour craft which have great possibilities and are very nicely designed. They have worked to 1:87 scale, match-



ing the HO model railway size, but the models are also suitable for 00, 1:76 scale. Wiad have tailor-made the models for a typical model railway dockyard scene and the range consists of the following items: Tug as a kit (£1.15), Tug ready-assembled (£1.50), Ferry (prices as tug), Dumb Barge (72p kit, £1.15 made-up), Diesel Barge (84p kit, £1.50 made-up), Diesel Fuel Barge (£1.02 kit, £1.75 ready-made). All are in plastic.



pre-coloured, and supplied in transparent boxes which double as display cases. Even in kit form assembly is very simple, the parts just snapping into place with minimal cementing. Windows and ports (where there are any) are not glazed, but clearly the wheelhouse windows would look good with a little clear glazing added by the purchaser. The models depict the smallest type of vessels in their respective categories. Detailing is well done but the modeller could really excel himself here, adding ropes, lifebuoys, stores, crewmen, and so on from the various model railway accessory ranges.

One or two points need amending. The Ferry, for instance, is just the Tug with an awning and guardrails. A couple of lifeboats are added atop the awning but with no other means of support, let alone any means of launching. Clearly these are best discarded and replaced with a larger boat slung under either davits or a derrick; as the boats themselves are tiny, they, too, could well be replaced. We reckon that by cutting down the funnels slightly and disguising the various doorways, these models could also be used for N gauge as larger versions of the

same types. Structural variations, like deckhouses, extra masts, and so on, could also be carried out quite simply.

Wargamers should not overlook these little models—it takes only a moment's study to realise that the addition of a gun on the Tug or Ferry Boat would turn it into a fine little patrol boat or river gunboat. The Dumb Barge or the Diesel Barge would be ideal for miniature amphibious operations. The Wiad models are faintly Germanic in appearance and Rhine Barges of this same general type were used as equipment ferries—and earmarked for the invasion of Britain—by the Wehrmacht in the World War 2 period. We had three samples from the range, the Tug, Ferry, and Diesel Fuel Barge, our samples coming from BMW Models of Wimbledon, London SW19, who can supply by post, postage extra. C.O.E.

AMT 1:25 scale Fruehauf Model FB Trailer

THIS model is one of a series currently on sale in the UK and is typical of a type of semi-trailer which is also becoming increasingly common on the roads of Britain. Owing to the large scale, the resulting model is over 19 inches long and makes an ideal companion for the AMT Ford LNT-8000 prime mover reviewed in the November issue. The complete outfit is an impressive 25½ inches in length and one would need an extremely tolerant wife or parent to be allowed to keep this model on the sideboard!

As with the Ford kit, the instruction leaflet is not too clear and needs to be studied very carefully together with the component parts to ensure that all go exactly where they are intended. Moulded in white plastic, the basis of the trailer is four large components, each 19 inches long and comprising (a) the floor (which has transverse supports moulded in place and the wooden flooring well represented by fine graining), (b) two sides with the corrugated light alloy construction nicely moulded, and (c) the roof. There is also a front panel with rounded corners and two opening rear doors. A plastic bag contains smaller suspension components and in addition a 'tree' of glittering 'chrome' components (wheels, air chambers, licence plate brackets, etc) is provided. A fair amount of flash is evident on the floor, sides and roof necessitating careful trimming. Some of the components of the suspension and front assembly suffer in the same way, as did those in the Ford kit in that moulding lines appear down the centre of flat surfaces, such as springs and girders and need to be carefully shaved away; a tedious and messy business. There are also one or two moulding faults which can be eliminated by judicious use of plastic putty.

Construction starts with the tandem axle suspension unit, the assembly of

which needs care in order to ensure that everything is nicely square. On our example it was found that the lower radius rods did not lie parallel to the springs when their locating pins were fitted into the holes in the axle casings. This was easily cured by trimming off the pins and cementing the rods in the correct position. The suspension unit slides on to two girders which are cemented beneath the floor. Care should be taken when positioning the girders as their location is only indicated by two pairs of raised nubs on the lower cross members. The modeller is offered a choice of positions for the suspension unit which can be secured in place by a simple locking mechanism. The 'chrome' plated wheels are paired and mounted on steel axles which pass through the axle casings. Detachable rims are provided and these rims may be cemented in place (after scraping away the plated finish to ensure a good bond) and the tyres slipped on afterwards. The tyres (we had one spare in our kit) are moulded in resilient black plastic and have a most realistic tread pattern and fine detailing on the side-walls.

As this kit is moulded 'in the white', every component will need to be painted and this is best done as assembly proceeds. The plastic, being shiny, should be given a matt undercoat first if one is to obviate white streaks showing through. Of course, with spray painting, this problem would probably not arise. We painted our underframe and suspension unit red and the floor was given a coat of Humbrol Track Colour No 119 which dries semi-matt and looks most 'wood' like. Sides, roof, front and doors were painted silver.

The front support dolly, which consists of two double-wheeled retractable legs, is used when the trailer is disconnected from its prime-mover, may be modelled with the legs extended for static display or retracted and 'ready to roll'. Alternative components are provided. A length of black vinyl tubing is also supplied—this is positioned beneath the trailer and represents the air hoses. The body sides are located by ten half-round stubs projecting from each side of the floor which fits into similarly shaped depressions in the body sides and the roof panel is retained in the correct position by long slots matching projections on the top edges of the body sides. With the front body panel cemented in place a rigid structure results. As previously stated, this model is fitted with opening rear doors, and in order that they operate efficiently, cement should be used sparingly during assembly, which is very simple. Red transparent plastic for use as tail-lamp lenses and reflectors on the body sides is also supplied. A large transfer sheet is provided and a template aids correct positioning.

Continued on page 572
AIRFIX magazine

TESTORS PAINT FOR MODELLERS

NEW COLOURS NEW SHADES METALLICS, FLAKES, CANDIES, GLOSS, MATTS, MILITARY COLOURS

A new high quality tested formula which gives smooth flowing, fast drying, good cover, but thin enough still to show fine detail—a durable finish for use on Plastic Kits, wood, metal, glass, styroform, plaster, leather. Specially developed and made for the Hobby trade. So you will only find it in good Model Shops and Model Departments.



TESTORS IS THE MOST WIDELY USED PAINT BY MODELLERS IN NORTH AMERICA. IMPORTED FROM CANADA BY RIKO
RICHARD KOHNSTAM LIMITED · 13-15a HIGH STREET · HEMEL HEMPSTEAD · HERTS

June 1972

New Kits—continued

This AMT kit, whilst obviously not being so complex as the Ford tractor, needs to be painstakingly built and will cause the modeller to perhaps use a little more care and patience than may be called for when building a kit where each component simply slots into place. The result is a model of ample proportions and one which could easily be of competition standard. Our review sample was supplied by Riko, the importers, but the kit may be obtained from advertisers in this magazine at a price of £3.40.

L.A.M.



Above: Heller Viking ship Oseberg, price £2.12, reviewed but not illustrated in the last issue.

Revell: 1:72 scale 'Blue Angels'

REVELL have come up with the interesting idea of presenting four F-4 Phantoms of the celebrated US Navy 'Blue Angel' aerobatic team, all together in one box, complete with a display stand which holds all four models in a suitable aerobatic attitude. The mouldings appear to be the old Phantom, available already in single kits, but this time in a blue very close to the actual base colour of these machines. It seems slightly too light to us when compared with colour pictures. Most modellers will, however, wish to paint the models in any case. The important item in the kit is a fairly good transfer sheet which takes care of all the intricate flashes and lettering of the actual aircraft. If you don't personally want four similar Phantoms in one colour scheme, this kit would lend itself to group purchase where the contents could be shared between four modellers. Presentation and moulding is good and the instruction sheet gives good colour details, including all internal colours. Our sample came from Bridge Models of Walthamstow, who can supply all Revell kits by post. Price of this kit is £1.55. C.O.E.



and pieces'. The Heller kit does this very effectively; in fact apart from the internals of the engine, every piece of the prototype seems to be reproduced including the wiring and control cables.

There are a number of other satisfying details incorporated in the model such as separate rubbers on the footrests, bulb and reflector in the headlamp, separate fins on the cylinders, and so on. A slight departure from normal in kits with working suspension is that the springs have to be produced by the builder from the materials supplied. However, the instructions for this are quite clear. The parts, over 200 of them, are moulded in light grey, black and chromed plastic; they are cleanly detailed, free of flash and clearly numbered. The well-produced spoked wheels are shod with the correct treaded tyres.

Although the text of the instruction sheets is in French, there is a separate English translation. The sketches of the 29 construction stages are self explanatory and should present no difficulty to the careful builder. Colour instructions are included in each stage so one can paint where necessary in advance of assembly. Altogether this is a highly satisfactory replica of the BMW machine and should prove popular with all owners and motor cycle enthusiasts. Our sample came from Riko, the British Heller distributors. At a price of £3.99 this kit is excellent value.

B.L.

Just Posters: wallcharts

A SERIES of large size colour wall charts covering subjects of interest to modellers is being distributed by Just Posters, 53 Perrysfield Road, Cheshunt, Herts. These are of the educational type in a format which will be familiar to most readers. The four samples we had covered motor racing, veteran cars, sailing ships, and aviation. The scheme is to take important events, machines, and personalities, presenting them in small coloured drawings complete with facts and details. Layout is neat and visually appealing. The colour printing and graphics are excellent. We thought the sailing ship chart had the edge over the others as it shows rigs, sail plans, and so on, in a most easy to read form. Price of each chart is £1.10, post paid. C.O.E.

Heller: 1:8 scale BMW 75/5

AMONGST the 1972 releases from the French firm of Heller is the BMW 75 motor cycle. The prototype is a modern equivalent of the early ABC with its transverse horizontally opposed twin cylinder engine and shaft drive. This arrangement results in a neat compact power unit and is very popular, giving good accessibility for maintenance.

In view of the fact that the components of a motor-cycle are not hidden away behind body panels, any model of this type must display plenty of 'bits

HALES have now taken over the Italian-made transfer sheets formerly distributed by Riko, and we have received a whole batch of new releases for review. Since our early comment on the indifferent standard and inaccuracies in this range, these later offerings show quite an improvement in both size and printing quality. We were not able to check all of them for size but none looked to be over-scale or otherwise inaccurate. We were pleased to see that ESCI have provided markings for several kit types for which good alternatives were not previously readily available. The new sheets are as follows: 51—P-40 variants and Hellcat (mainly 'Flying Tigers' P-40C/N/K and personal markings for USN Hellcats); 52—Ju 52 (good options for the Airfix model); 53—Boston/Hudson/Ventura (a very nice sheet worth having, though the Ventura can only be obtained by converting a Hudson); 54—RAF roundels, small stencils, and victories, etc (again a good sheet, specially for the minute stencils); 55—Fw 189 and Bv 141 (excellent options for the Airfix models with spare unit markings as a good bonus); 56—Assorted US insignia, personal markings, and victories (very neatly done); 57—Stirling and Whitley; 58—Firefly and Swordfish (very useful this, and with some RAF squadron badges as a bonus); 59—Dakota (USAAF and British); 60—Catalina and Sunderland (includes attractive US Coast Guard markings); 61—Hampden and Anson (very good, with optional squadron badges); 62—German insignia, assorted; 63—Wellington (very good); 65—Axis volunteers (an Avia B-534, six Me 109Gs, and assorted other markings, and a Bulgarian PZL P-24); 67—Devastator

Continued on page 574

MODEL TOYS

PLASTIC KIT SPECIALISTS—ASSOCIATE MEMBER I.P.M.S.

MODELDECAL 1:72 SCALE

Also available in the Modeldecal range are the following sets: BAC Lightning Mk. 1A, 2 and 6 (six alternatives in RAF service). No. 2: McDonnell F.4 Phantom (VMFA-531, USMC; 555th TFS, USAF, and 767 Sqn., R.N.). No. 4: U.S. Navy (F6F-3 Hellcat, VF-6; SBD-3 Dauntless, VS-2, and TBM-3 Avenger, USS Bunker Hill). No. 6: U.S. Navy (F4U-1A Corsair, VF-17; SB2C-3 Helldiver, VB-7; OS2U-3 Kingfisher, NAS Pensacola). No. 7: Royal Air Force (Hunter F.6, 14 Sqn.; Phantom FGR2, 6 Sqn.; Meteor F.4, 63 Sqn.; and Harrier GR.1, 1 Sqn.). No. 8: USAF (Tail code letters, serials, "mini" insignia, etc.). No. 9: U.S. Navy (A-11 Skyraider, VA-176; A-7E Corsair, VA-195; SH-3A Sea King, HS-3). No. 10: USAF-S.E. Asia (RF-101C, F-105D, A-1H and EC-47N). No. 11: F-102A, 460th FIS, USAF; Harrier GR.1, 4 or 20 Sqn., Sabre 6, 430 Sqn., RCAF and alternative RCAF Sabre fin emblems. No. 12: Phantom FGR.2, 17 Sqn., RAF; F-104G, 10th F.B. Wing, Belgian A/F, and TAC Badges, No. 13: German Air Force and Navy (T-33A WsLW50; G.91R/3, LeKG43 (431 Sqn.); F-104G, MFG.1). No. 14: Royal Air Force (Sabre F.1, 234 Sqn., Vampire F.B.5, 112 Sqn., and Chipmunk T.10, 2 FTS). No. 15: U.S.M.C. AV-8A Harrier, VMA-513, and U.S. Navy A-7E Corsair, VA-113 and F-4B Phantom, VF-111. No. 16: USAF-S.E. Asia (2): F-4E Phantom, 34TFS, 38TFW; 0-2A, 23 TASS; AC-47, 432TRW., and USMC OV-10A Bronco, OV-10A, 155404 "25" HML-267 1970 AC-47 DAKOTA, DET. 432nd T.R.W. U.S.A.F. 1970 CESSNA O-2A-CE 23rd, T.A.S. 5SQN. 1970

FURTHER ADDITIONS TO THE RANGE...

MODELDECAL SET NO. 15

L.T.V. A-7E CORSAIR II. VA-113 "THE STINGERS" U.S.S. RANGER, 1970 H.S. AV-8A HARRIER, VMA-513 U.S.M.C., 1971-72 McD. F-4B PHANTOM, VF-111. N.A.S. MIRAMAR 1971

MODELDECAL SET NO. 16

McD. F-4E PHANTOM 34th T.F.S. 388th T.F.W. KHORAT R.T.HAI A.F.B. 1970 OV-10A BRONCO, 155404 "25" HML-267 1970 AC-47 DAKOTA, DET. 432nd T.R.W. U.S.A.F. 1970 CESSNA O-2A-CE 23rd, T.A.S. 5SQN. 1970

'MODELDECAL' style fully illustrated instruction sheet giving decal locations and full colour scheme details, is included with all Modeldecal decals.

PRICES

SET No. 7	35p	Postage on all decals:
SETS Nos. 2, 4, 6	28p	up to 3 sheets 6p, 4 and
ALL OTHER SETS	38p	over 10p UK.

NOTE: All Modeldecal sheets contain full markings to complete all models listed except sheets Nos. 1, 2, 7, 11, 12 and the Vampire section of 14, where the 'D' type roundels are used from the respective kits, as also is the Nat. Insign. for the F-102. However, the Hunter section only on No. 7 does include roundels. Harrier markings on No. 7 are intended to complement those in the Frog kit. Instrument panels included for all machines on sheets Nos. 7, 9, 10, 11, 12, 13, 14, 15, 16.

MODELDECAL DECALS. THE WORLD'S FINEST. ALL SETS IN 1/72 SCALE

HASEGAWA

*Recommended for Modeldecal

Lockheed T-33A*	1/72	36p	MONOGRAM
Curtiss SG C-3 Seagull	1/72	36p	Curtiss P-6E biplane.
T-38A/1/2/3/5B Talon	1/72	36p	Boeing F4B-4 biplane.
Heinkel HE 51B-2	1/72	63p	Curtiss P-36A
C. Seagull Floatplane	1/72	63p	P-51B Mustang
Cessna A-37A	1/72	63p	G.47F-3 Tigercat
Fuji T-1A Trainer	1/72	65p	M.E.B/110E
Type 94-I 'AII'	1/72	75p	Dornier Do-17Z
F-106A Delta Dart	1/72	95p	Focke-Wulf 190A
Mitsubishi 'Betty'	1/72	£1.44	M.E.B/109E
H6K5 Mavis Flying Boat	1/72	£3.14	S. Spitfire Mk. IX
Shinmeiwa PS-1 OR SS-2	1/72	£3.75	P-51B Mustang
Curtiss BF2C-1	1/72	£2.10	Hurricane II/IV
Boeing P-12E	1/72	£2.10	G. Avenger
Focke F-84	1/72	£2.10	H. Typhoon IB

ITALAERI

Roggiano 2002	1/72	59p	MONOGRAM
Roggiano RE-2000	1/72	59p	Curtiss P-6E biplane.
Roggiano RE-2001	1/72	59p	Boeing F4B-4 biplane.
Fiat 202 Cicogna	1/72	£1.85	Curtiss P-36A
Caproni CA 313/314	1/72	£1.85	P-51B Mustang
RF-84F Thunderflash	1/72	£1.12	Hurricane II/IV

HELLER

Caudron C-714	1/72	25p	MONOGRAM
Les Mureaux 117	1/72	25p	Curtiss P-6E biplane.
Morane Saulnier 406	1/72	25p	Boeing F4B-4 biplane.
Bloch 152	1/72	25p	Curtiss P-36A
Dewoitine D-520	1/72	25p	P-51B Mustang
Amiot 43	1/72	92p	Hurricane II/IV
Bloch 170	1/72	92p	G.47F-3 Tigercat
Bloch 693	1/72	92p	M.E.B/110E
Potez 63-11	1/72	92p	Dornier Do-17Z
Potez 63-1	1/72	92p	Focke-Wulf 190A
Leo 451	1/72	92p	F.100D Super Sabre*
Liore et Olivier 45	1/72	92p	F.4K/5 Phantom*
Bloch 210	1/72	£1.25	G.47F-3 Tigercat

BY RETURN POSTAL SERVICE			
Postage and Packing UK rates (Books and Decals see special rates).			
Up to 50p, 8p, Up to £1.50, 12p			
Up to £3.00, 25p, Up to £5.00, 30p.			
Over £5.00 Post Free.			
S.A.E. with all enquiries please.			

Authentic camouflage paint sets, 6 colours each 60p per set

1. R.A.F. E.T.O., WWII

2. Luftwaffe, WWII

3. Mustang Mk. V

4. Merlin engined Spitfires

5. P-51B Mustang in USAF service

6. P-40 L-V Kittyhawk

7. P-40-N Warhawk

8. Griffon eng. Spitfires Mk. XII-24

9. Spaf VII and XIII Scouts

10. P-38 Lightning

11. B-24 Liberator

12. Avro Lancaster

13. Nakajima Ki-43, Hayabusa I-III

14. F/R-84F Thunderstreak

15. B-17B Fortress

16. Mitsubishi A6M Zero

17. North American F-86A-L Sabre

18. Nakajima Ki-27 Nate

19. Grumman F6F-3/5 Hellcat

BY RETURN POSTAL SERVICE			
Postage and Packing UK rates (Books and Decals see special rates).			
Up to 50p, 8p, Up to £1.50, 12p			
Up to £3.00, 25p, Up to £5.00, 30p.			
Over £5.00 Post Free.			
S.A.E. with all enquiries please.			

Authentic camouflage paint sets, 6 colours each 60p per set

1. North American P-51D Mustang

2. Canadian Sabre Mk. I-IV

3. N.A.250/251 Mitchell

4. Vought F4U-1/7 Corsair

5. Douglas A-4/A-7 Skyhawk

6. Douglas A-4/A-7 Skyhawk

7. Nakajima Ki-84 Shoki I/II

8. H. Hunter F.1/T.66

9. Douglas A-4/A-7 Skyhawk

10. Nakajima Ki-84 A/B Hayate

11. Battle of Britain Special

12. Finnish Air Force

13. Sharkmouth Vol. I

14. Sharkmouth Vol. II

15. Czech Air Force 1918-1970

16. Luftwaffe Vol. I Colour Schemes and

17. Markings 1935-45

18. Luft

New Kits—continued

and Seagull (a very colourful and attractive sheet).

All these sheets cost 15p each and are available by post from Jones Bros of Chiswick, postage extra. A catalogue is also available which illustrates every sheet in colour. This is handy for it means sheets can be checked for suitability prior to purchase. It is well produced and military modellers might like to know that it also illustrates a fine new range of military motor-cycles in 1:9 scale which ESCI are shortly to release. Hales will be importing these models later. We saw a prototype of kit No 1 in this range, a German BW R-75 combination, and it looks really fine. The catalogue costs 18p, post paid, from Jones Bros. C.O.E.



Above: Czechoslovakian kit of the IL 10/Avia B33 reviewed but not illustrated in one of our recent issues.

Frog: 1:72 scale He 111 and Corsair

AS we close for press we've received—**A** but not assembled—two new Frog releases, a Heinkel He 111-H1 with optional markings and armament for the H6, and a Corsair F4U-1D. The He 111 differs from the Airfix version and depicts a Battle of Britain machine in its H1 form. It looks fine on a 'dry run' and the parts fit well together. The Corsair, at first sight, duplicates the other Corsairs available but this one wins by being really flush and smooth, just like the real thing, rather than peppered with rivets. It comes with imaginative markings too, for the RNZAF, or 1842 Sqn FAA in 1945. This appears to be a very accurate model. The He 111 costs 80p plus 15p postage, and the Corsair is 21p plus 5p postage. Jones Bros of Chiswick hold stocks and sent our samples. C.O.E.

Graham Farish: N Gauge Coaches

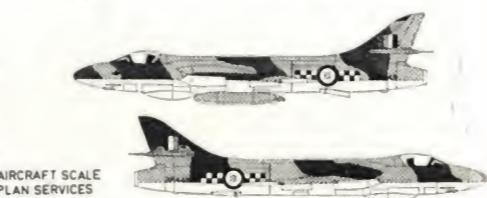
LATEST addition to the fast-growing Graham Farish range of N gauge items are a pair of British type 57 ft suburban coaches, all plastic and supplied ready-made at 93p each. There are two types, a full nine-compartment and a brake-end vehicle. They seem to be based on the pre-war type of LMS steel vehicle, but in this scale they are, perhaps, best regarded as 'typical'. Farish supply them in LMS red, SR green, and Brown,

moulded in these basic colours. For the GWR then, the modeller will need to mask off the upper panels with Sellotape and paint these cream to complete the colour scheme. The underframes and bogies are moulded in black, the roofs in grey, and the interiors in light brown. The roofs come off so it would be possible to put miniature passengers inside. Glazing strips are included and the interior shows very nicely through the 'windows'. The makers supply strips of class number transfers for the doors and the models come in neat 'plush' type packaging. The standard N gauge coupler is fitted and the coaches should be snapped up by all N gauge modellers working with British type layouts. They are excellent value for money, sweet running and most realistic. Two brake-end vehicles look very good as a GWR 'B Set', ideal for a branch line layout. On one of our samples the roof showed a slight tendency to bow, but this could be obviated by cementing it down once passengers (if any) were installed inside. The brake-end vehicle has a full-length passenger seat interior which does not show from outside, but sticklers for realism will want to saw off the end few rows of seats to leave the luggage space clear. Jones Bros of Chiswick kindly supplied our samples and can supply all Farish models by post, postage extra. C.O.E.



Left: The two new Graham Farish N gauge 57 foot coaches reviewed above.

HUNTER F.mk.6



AIRCRAFT SCALE
PLAN SERVICES

Aircraft Scale Plans Services, 36 Brice Road, Currie, Midlothian, offers a range of neatly executed 1:72 scale drawings priced at 10p each, or 15p for a sample sheet and a list of the full range. These are tinted and shaded as shown in our much-reduced reproduction. The only omission seems to be some sort of colour guide and identification of the unit depicted. Without this guide you'll need to find out elsewhere. The plans should be most useful for model builders and converters. Another sample we received portrayed the Bristol Brigand, for instance.

Humbrol: Maskol and Epoxy

LATEST addition to the Humbrol range of modelling aids is Maskol, which is produced specially as a paint barrier for masking out transparencies and other parts while a model is painted. The liquid is applied by brush (it is water soluble) and left to set. After this it can be overpainted with impunity and the whole lot is simply peeled off when all painting is completed. In effect it is the British version of the stuff known as 'Magic Masker'. Humbrol have also produced a Five-Minute Epoxy glue, resin and hardener in a twin pack which is mixed and applied to the areas being joined. It is specially good for joining materials which are normally non-compatible. Maskol costs 18p a bottle and the Epoxy is 40p per twin pack. C.O.E.

surface!). Price is 22p and Heller kits are distributed in UK by Riko. Most big model shops stock Heller kits. At 1:100 scale this is a useful model for those who collect the growing numbers of aircraft kits to this same scale. M.P.D.



YOUR INTERNATIONAL MODEL MAIL ORDER HOUSE

Suppliers to the British and Overseas Governments



MILITARY AND UNIFORM BOOKS

British Infantry Regiments	£1.35	88p	£1.50	US Single Shot Martial Pistols	£2.40
Waffen "SS"	£2.25	£1.75		Uniforms of the American Revolution	£3.80
German Combat Uniforms	£1.35	88p		Soldiers of All Times Vol. 1	£2.25
French Nap. Artillery	£1.75	£1.25		Soldiers of All Times Vol. 2	£2.25
French Lancer Regiments	£1.75	£1.25		Soldiers of the 1914-18 War Vol. 1	£2.25
The Life Guards	£1.75	£1.25		Soldiers of the 1914-18 War Vol. 2	£2.25
The Foot Guards Regiments at Waterloo	£1.75	£1.25		Military Pistols & Revolvers W.W.2	75p
British and American Tanks W.W.1	£5.50			Allied Bayonets of W.W.2	£1.25
German Secret Weapons W.W.2	£4.25			The Dress of the Royal Artillery 1800	£5.00
Fifty Famous Tanks	£4.75			Scottish Swords and Dirks	£1.70
British Tanks & Fighting Vehicles	£5.25			Russian Infantry Weapons W.W.2	£1.50
Red Army	£1.50			Sea Battles	£1.25
US Cartridge Co. Collection Firearms	£2.80			Advanced War Games	£2.50
				War Games Campaigns	£1.75
				German Field Works W.W.1	£1.00
				German Combat Weapons of W.W.2	£3.80
				Pictorial History of the Machine Gun	£3.45

Figures by: HISTOREX — ALMARK — AIRFIX — ROSE — HINTON HUNT — SANDERSON — MINOT — LASSETT — OLIVE — TAMIYA — LES HIGGINS — HINCHLIFFE — LAMMING — STANDISH — Etc.

NEW BADGER



AIR-BRUSHES

These Air-brushes are precision made with all metal components with Teflon bearings and seals. Used by professionals for painting, finishing, refinishing and touch-up. Model No. 250 Hobby kit. Plastic and metal parts, with five-foot Vinyl hose, Air valve, mixing jar, instruction folder and plastic case. £3.85

HISTOREX NEW

Imperial Guard Scouts 1813-14 Mounted
No. 172 1st Regt.—Scout Grenadiers
No. 713 2nd Regt.—Scout Dragoons
No. 714 3rd Regt.—Scout Lancers £1.65 each
No. 715 Engineer Corps of the Guard
1810-14 FOOT FIGURE Officer-N.C.O.
Drummer or Soldier 80p each

POST AND PACKING

Please add 10% to all orders up to £5.00 (min. 10p). Over £5.00 post free. C.O.D. Charge 45p.

BMW MODELS, 327-329 HAYDONS ROAD, WIMBLEDON, LONDON, S.W.19

01-540 7333/4

NEW MINITANKS

No. 250 ROCKET TANK AND ROCKET (USSR)	33p
No. 251 TANK COMMANDERS, E.D.W. AND U.S.S.R.	14p
No. 252 TANK COMMANDERS B.W. AND U.S.	14p
No. 253 U.S. M114 and M114A1	17p
No. 254 U.S. M551-SHERIDAN	20p
No. 255 U.S. TENT FOR TEN MEN	11p
No. 257 BERGE PANZER LEOPARD	17p

NEW L & S GUN KITS

S & W COMBAT MAGNUM 3½" BARREL	£2.00
LUGER MODEL P/08	£2.00
WALTHER P-38	£2.00
S & W COMBAT MAGNUM 6" BARREL	£2.00

HINCHLIFFE METAL WARGAME FIGURES

French Napoleonic (FN) 7½p each	
FN 1 Line Fusilier, advancing	
FN 2 Line Fusilier, charging	
FN 3 Line Fusilier, in greatcoat, advancing	
FN 4 Line Grenadier, advancing	
FN 5 Grenadier, in forage cap, advancing	
FN 6 Line Infantry, Officer, advancing	
FN 7 Line Officer, standing, at rest	
FN 8 Line Infantry Drummer, drum over shoulder	
FN10 Light Infantry, Chasseur, advancing	
FN11 Light Infantry, Chasseur, charging	
FN12 Light Infantry, Voltigeur, skirmisher	
FN13 Line Infantry, Officer in greatcoat	
FN14 Line Voltigeur, charging	
FN16 Old Guard, campaign dress, advancing	
FN17 Old Guard, campaign dress, charging	
FN18 Old Guard, campaign dress and greatcoat, advancing	
FN19 Old Guard, campaign dress, greatcoat, advancing	
FN20 Old Guard, campaign dress, Drummer	
FN21 Old Guard, full dress, attacking	
FN23 Light Infantry, Officer	
FN41 Foot Artillery of the Line, quick firing	
FN42 Foot Artillery of the Line, stopping vent	
FN43 Foot Artillery of the Line, carrying two buckets	
FN45 Foot Artillery of the Line, Officer with telescope	
FN50 Horse Artillery of the Line, with linstock	
FN51 Horse Artillery of the Line, carrying round	
FN52 Horse Artillery of the Line, with rammer	
FN53 Horse Artillery of the Line, with pricker	
FN55 Horse Artillery of the Line, Officer with map	
Russian Napoleonic (RN) 7½p each	
RN 1 Line Muskeeter, in greatcoat and fatigue cap, advancing	
RN 2 Line Officer, in greatcoat and fatigue cap	
RN 4 Line Officer, in greatcoat and fatigue cap	
RN 5 Line Drummer	
RN 6 Line Grenadier, advancing	
RN 7 Line Grenadier, Officer	
RN 8 Line Grenadier, Drummer	
RN11 Pavlov Grenadier, advancing	
RN13 Pavlov Grenadier, Officer	
RN14 Pavlov Grenadier, Drummer	
RN16 Line Jaeger, kneeling firing	
ACW 1 Line Infantry, advancing	
ACW 2 Infantry in Kepi, advancing	
ACW 3 Infantry in Kepi, standing	
ACW 4 'Johnny Reb', advancing	
ACW 5 'Johnny Reb', standing firing	
ACW 6 'Johnny Reb', kneeling firing	
ACW 7 Infantry Officer in Kepi, advancing	
ACW 8 Zouave in Tassled Cap, advancing	
ACW 9 Zouave in Turban, advancing	
ACW10 Cavalry Trooper, dismounted	
ACW11 Artilleryman in Kepi, holding rammer	
ACW12 Artilleryman in Kepi, carrying bucket	
ACW13 Artilleryman in Kepi, holding gun	
ACW14 Artilleryman in Kepi, manning gun	
ACW15 Artillery Officer, in Kepi	
ACW16 Zouave in Kepi, advancing	
ACW17 Zouave Officer, charging with revolver	
Personality Figures (PF)—complete with box 35p each	
PF1 Emperor Napoleon	
PF2 Marshal Ney	
PF3 Marshal Murat	
PF4 Lord Wellington	

Letters to the Editor

Aircraft identified

THE aircraft in photo No 7 of the April Photopage is a *Newport-Delage Ni-D.62* Sesquiplane Single-seat fighter, a type which entered service with the Armée de l'Air in 1929 and was still in service until about 1940. It was built in considerable numbers for those days, about 300 of all variants in France and 125 of the Ni-D.52 (almost identical externally) under licence by Hispano-Suiza in Spain. The Spanish built machines served on both sides in the Civil War. The machine in the photograph is probably the Ni-D.622, with full-span ailerons and Ratiere metal aircscrew, but the details are not clear enough—perhaps the original print is better.

The following information applies to the Ni-D.62 with a 500 hp Hispano-Suiza 12 Hb engine and 2.77 mm Vickers machine guns:

Span: 39 ft 4½ ins. Length: 24 ft 1½ ins.

Height: 9 ft 10 ins.

Max Speeds: 168 mph at sea level, 154 mph at 16,400 ft.

F. J. A. Henderson, Woking, Surrey.

I ALSO believe that Photo No 4 has been wrongly identified. I believe it to be a Potez 63.11 and not a Bloch 174, both aircraft were similar in outline but the angular nose of a Potez is clearly visible in the photo and the cockpit cover of the Potez was much shorter than that of a Bloch. I have just completed a Heller model of the Potez 63.11 and I have a kit of the Bloch 174 which have not yet commenced.

R. S. Crow, Braintree, Essex.

YOUR unknown aircraft is a *Newport-Delage Ni-D.622* Sesquiplane fighter. Designed in 1931 and powered by a Hispano-Suiza HS 12Mdsd inverted V-12 liquid cooled engine it had an armament of two 7.7 mm Vickers machine guns in the upper fuselage decking.

At the outbreak of the war the surviving Ni-D.622s together with the improved Planich-Szydlowski supercharged Ni-D.629 models were serving respectively with Escadrilles 1/561 and 111/10 at Villacoublay, who early in 1940 handed them on to Escadrilles Régionales.

Dimensions were: Span 39 ft 4½ in (12 m); Length 24 ft 7½ in (7.5 m); Height 9 ft 10 in (3.0 m); Speed 168 mph at sea level.

Camouflage was the standard Armée de l'Air green overall with engine cowling natural metal.

Paul Hunt, Walton-on-Thames, Surrey.

These are just a few of dozens of letters which readers send in to identify the aircraft in question. Many thanks to all others who wrote.—EDITOR.

Jeep Identified

THE 'JEEP' in your July 1971 issue, identified as an M51 in the November issue is, in fact, nothing but a very poor model of the World War 2 Willys/Ford model. An M51 was never produced. Perhaps Captain Rice meant the M151 but it does not look like an M151 and the curved-

CONTRIBUTIONS

Letters to the Editor selected for publication entitle the senders to each receive a free Airfix plastic construction kit, and the publication of photographs from readers is similarly rewarded. Airfix Products Ltd award the kits on the following scale:

ONE letter or photograph published is rewarded by any kit from Series 1-6 inclusive. For TWO letters or photographs any one kit up to and including Series 9 can be chosen, or alternatively two kits up to Series 6. For THREE separate contributions (eg. photographs) the entitlement is one kit up to Series 12 or three kits up to Series 6. Readers can make their choice on the special card which we send out after publication. The kits are supplied direct by Airfix Products Ltd.

We receive a large volume of mail from readers; all letters are read and we answer or acknowledge as many as possible provided that a SAE or stamp is included for reply. The Editor cannot accept responsibility for safe keeping of contributions though every care is taken. Opinions expressed by correspondents on this page are their own and do not necessarily reflect the views of the Editor or Airfix Products Ltd.

down bonnet he brings up as a point of identification goes with the M38A1 (Willys/Kaiser-Jeep). At any rate, the recoilless rifle version of the M151 was the M151A1C and both had a flat bonnet. If the USA registration number (20154304) is anything to go by it would be a 1942 Ford GPW. Perhaps this settles it?

John M. Carpenter, Olyslager Organisation, Dorking, Surrey.

Metallic finish

THE following information should be of interest to readers.

Goldfinger Metallic Finishes are produced by John Rowney Ltd, in three colours, Gold, Copper and Silver, available from most art shops at 37½ per tube. Originally intended for picture frames, they give an excellent metallic finish to plastic models.

SUU details

WITH reference to the letter of N. D. Parry in the March 1971 issue in which he relates the construction of a SUU-23 gun pod, I wish to make the following observations.

The gun in the SUU-23 is not the M61A1, but the GAU-4/A, which is merely the M61A1 with a gas bleed-off system for providing power to run the gun system. The unaltered M61A1 is used in the SUU-16 gun pod, which requires a Ram Air Turbine (RAT) deployed into the airstream for power. As SUU-23s become available the SUU-16s are being withdrawn from service.

The overall colour of the SUU-23 is the same dark green used in camouflaging the F-4. However, colour match need not be perfect, as pods are not painted at the same time as are aircraft, nor by the same people, nor quite as often. Weathering therefore takes a hand. The duck-bill shaped flash shield above the gun barrels is natural aluminium, and is flat (matt) also.

The 'perforated cap', or blast diffuser, is flat black along with the rest of the gun, although weathered black is more accurate in scale. Periodically moving parts are brushed with oil, so a slight gloss over the gun housing is acceptable (assuming that the gun pod is built with access covers open or off).

Joseph P. Koss, Jr, Shalimar, Fla, USA.

Aerials

PERHAPS some readers might be interested in an alternative to the 'heated stretched sprue' for aerial detail. I find human hair to be quite effective. It has a long and honourable history in modelling and possesses qualities of fineness, strength and durability which are difficult to equal. It may be inserted in the tail while cementing fuselage halves together then tied around a suitably grooved radio mast. This saves unsightly cement blobs.

F. G. Martin, Edgbaston, Birmingham.

TAVR markings

READERS who model modern military equipment may be interested in the following points, regarding vehicles in some TAVR units.

In 5 (V) Battalion Royal Anglian Regiment some Landrovers carry a square plate on the radiator grille. This is painted blue and has on it white the sub-unit to which the vehicle is allocated, eg. O.C. B COY, No 2 MORTAR, etc. The vehicles are in standard green with a red arm-of-service sign, with a white bar above bearing the legend '5 R ANGLIANS'. The higher formation sign is I believe, blue with a yellow crown.

Some vehicles attached to TA units bear a cab window sticker, announcing their unit, mainly for publicity purposes. An example is Bedford RL 44EL94 of 87 (Nottingham) Signal Sqn (Volunteers). This carried the Royal Signal sign on the offside whilst the nearside sign was, on Royal Signals colours, a red horseshoe,

curved portion downwards, with a red XIII in the centre.

Could I also take this opportunity to state my agreement with W. G. Evans (Letters, March) on the use of one's own deductions in modelling, without waiting for specific reference matter to be published (the chances are they won't bring out what you want anyway).

T. J. Hudson, Aberystwyth.

Israeli Tanks

FOR THOSE interested in the Israeli forces the following details may be helpful when it comes to modelling the Centurion tank.

These vehicles were equipped with the 105 mm gun which can be taken from the Leopard kit. Some appear in photographs with searchlights mounted above the gun mantlet, measurements being about 8 mm in diameter and 2 mm wide. The Airfix mantlet can be adapted to the fixed type by covering it over with fine khaki cloth or Plasticine. A machine gun taken from the Buffalo kit is mounted beside the commander's cupola. The rear turret escape hatch is circular (6 mm) in diameter.

The Israeli M48 can be made from the Midori Patton kit in 1:76 scale.

The rear idler wheel near the drive sprocket must be removed. Stowage racks on the side and rear of the turret can be made from fine stretched sprue or fuse wire. The periscopes on either side of the turret need to be enlarged slightly and lifting hooks are mounted above the gun mantlet and on either side of the tank near the rear stowage racks which can be loaded with petrol cans and oddments made to look like packs, etc. Some Pattons are also equipped with searchlights.

Ian Clark, Upper Hutt, New Zealand.

Artillery records

M. R. DYLE'S statement that 25 Field Regt has a unique claim in being the only Regiment to have used so many guns in so short a time is not correct.

I believe that 160 Field Regt in 26 Indian Division in World War 2 used 25 pdrs, 3.7 howitzers, 18 pdrs, 3 inch mortars, and Priests. Furthermore 4th Royal Artillery (289 Batt Royal Artillery) was issued with 2 pdrs, then 6 pdrs, and, transferring to 6th South African Armoured Division, after Alamein, was issued with 17 pdrs just before Cassino. Subsequently the regiment used 4.2 inch mortars and M10 SP guns, and may have ended up as a Field Regiment using 25 pdrs.

I believe the Third Infantry Battalion of 28 Brigade was 1st South Staffords, and there was also 3 RTR and 3rd RM Commando Brigade.

J. J. Rainbow, Dover, Kent.

Crusader details

AS THE controversy over the Airfix Crusader still rages in your excellent magazine, may I hope to clear the matter up for once and for all?

I recently visited the RAC Tank Museum at Bovington and measured the Crusader there and the following are the dimensions: Length (from front mudguard to rear mudguard extremities) 19 ft 1 inch. Width is 8 ft 6 inches. Height I did not measure as the vehicle is 30 years old and would have possibly sunk on its suspension having no jacks under it, also the height would vary according to whether the crew were in or if fuel and stores were also stowed. The wheels were 31 inches in diameter.



Above: Hinchliffe 105 mm Howitzer and World War 2 figures, all part of a new range designed to cover the main combatants of this war in the popular 'wargame' scale of 20 mm.

Ltd, 138 Northwood Rd, Thornton Heath, Croydon CR4 8YG (at 30p refunded with first order), or Tom C. Saville Ltd, Beeston, Notts NG9 2AL, (at 15p). There are many others, but I can recommend the two mentioned. Individually none of these items should cost more than 30p.

A. J. P. Bonner, Dronfield, Sheffield.

Fallschirmjäger points

I WOULD like to make some comments on the 'Fallschirmjäger' article in the February issue of *Airfix Magazine*.

Firstly, concerning the Waffen-SS Paratroopers, it is doubtful if SS decals were ever worn on the 'Fallschirmjägerhelm', since the Waffen-SS paras were formed after orders banning the use of the decals were issued: see *Uniforms, Organisation and History of the Waffen-SS*, Vol. 1, pp 13. Also, while it is possible Luftwaffe camouflage helmet covers were worn, the Standard Waffen-SS cover also easily fits the Paratrooper's helmet, and there's no reason to believe they weren't issued to the SS Paratroopers too.

The Panzerschreck was not a recoilless rifle—it was, exactly like the US Bazooka, a smooth-bore tube firing a spin-stabilized, shaped charge, rocket projectile.

The blast must have been great, because firers of the Panzerschreck without shields, were ordered to wear gas masks (without canister), plus hoods and heavy gloves, therefore the Tamiya figure pictured is asking to be a casualty. He is firing the weapon with the tube pointing to the rear over his legs; in real life, such an action would result in severe burns.

Incidentally, an excellent photographic history of the Panzerfaust Panzerschreck and other German tank-killer weapons is available in numbers 3 and 4 of the German-language publication *Waffen Revue*. Text may give English speakers trouble, but the photos (mostly from German Ordnance manuals) are pretty self-explanatory and detailed (sights, firing mechanisms, action, and even the packing cases are to be seen). The books are well worth the cost of 6 DM (about 75p) plus postage. Books are available direct from the publisher:

Karl R. Pawlas,
Publizistisches Archiv für Militär—
und Waffenwesen
85 Nürnberg, Krälingstrasse 33
W. Germany.

Patrick M. Barrett, Gräfelfring,
West Germany.

R. C. Gibson writes: *With reference to Waffen-SS helmet decals, the order concerned units in the field—the SS paras were only in full-time field service for a short period at the end of the war. As Mr Barrett is no doubt well aware, an order was also issued forbidding the wearing of collar patch and shoulder strap insignia on camouflage clothing but that both this order, and the subsequent orders of February 1943 and July 1944 which made the wearing of insignia on camouflage clothing compulsory were not fully acknowledged in the field. I think this establishes the reality of the situation regarding such orders. The SS Paras did wear Luftwaffe-pattern helmet cover; they may have worn SS-pattern helmet covers.*

The Panzerfaust was a recoilless rifle. The actual figure mentioned has a 20 degree angle between the weapon and the right leg. None the less, Mr Barrett's data on the actual clothing used is valuable: this is for the RPzB 43 without the moveable shield.

Model Soldiers—from 565

but until that time arrives he need not be prevented from producing acceptable models by any lack of the more traditional modelling skills.

I have discussed this subject here because I am sure that the less restriction an enthusiast applies to his choice of materials and techniques, the more scope there will be for the exercise of his creative imagination.

As a modelling project, try converting some of the new American Civil War infantry, issued by Britains Ltd in their 'Deetail' series, into British infantry of the Indian Mutiny period 1857-8, or of the Zulu War 1879. The drawings show the sort of work required, which mainly involves changing or adaptation of heads, and minor alterations to clothing and equipment. Only a little effort and some repainting will produce original and authentic types representative of periods which have been largely neglected by commercial model manufacturers.

Both infantry and cavalry are represented among the Britains American Civil War subjects, with some lively, well-sculpted horse models, which in themselves provide excellent material for alteration and adaptation. There are also mounted and dismounted cowboys, some of which can readily be changed into Boers or various irregular units, and Red Indians horsed and on foot giving even more scope to the imaginative converter. World War 2 is represented by German and US Infantry in a number of action positions which lend themselves to adaptation with little effort. For the present time this completes the available 'Deetail' ranges, but no doubt there will be more to follow. Robert Gibson included some 'Deetail' German conversions in his recent German paratroop series.

These figures fall into the general category of 'flexible' plastics, but are made from PVC, unlike most other currently produced toy soldiers which are manufactured from Polythene. This means that parts can be bonded together with a PVC adhesive, such as that marketed by Humbrol, and that careful filing or sanding can be carried out without causing the unmanageable fibres so characteristic of polythene if operated upon in this way. However, PVC models do suffer from a fault common to all flexible plastic pieces, in that thin sections such as rifles, swords, pistols, etc, tend to warp badly, and in general need to be replaced by metal or hard plastic items if a satisfactory and lasting appearance is to be achieved.

Prices of 'Deetail' figures are quite modest: they are readily obtainable in most areas of the UK, US and Western Europe, and are well-proportioned and sculpted, making them particularly suitable for the newcomer to conversion. Many of the figures also have removable 'plug' arms which can be swapped around



Above and right: Two conversions from the Britains American Civil War soldiers. These are quite simple, only entailing changing the heads for Rose metal ones, substituting the correct rifle and slings and a small amount of trimming. Both figures are shown undercoated with Unibond ready for painting, standing alongside them are the original figures to illustrate the amount of work needed to obtain this result.

to provide variety with a minimum of effort.

The American Civil War infantrymen are especially suitable for conversion to British Army types of the latter half of the nineteenth century, since the loose tunic and trousers are typical of British active service dress during this period, and the equipment can be altered quite simply. My sketches and adjacent notes show how the standard-bearer model can be converted very easily to represent a British officer of the Indian Mutiny, or of the Zulu War periods; let us now deal with the other ranks.

During the Mutiny of 1857, British soldiers campaigned in a great variety of dress from the white cotton drill 'hot-weather' uniforms to an improvised shirt-sleeve order featuring the blue-grey Army shirt and dark blue serge trousers. Loose khaki-drill tunics and trousers were also very popular, whilst head-dresses of the 'pork-pie', pill-box, and kepi varieties, often with cloth covers and neck guards rather like the French Foreign Legion wore, vied with full dress shakos, bonnets, and primitive solar topees. Contemporary records and sketches indicate that the men's uniforms suffered considerable wear and tear during the campaign and, since supply and replacement were somewhat chancy, repairs were made with whatever materials happened to be available, resulting in some really bizarre effects.

More than twenty years later, in 1879, the regular line-infantryman fighting in the Zulu War was dressed in red tunic and dark-blue trousers, with black boots and short gaiters, and with his head protected from the fierce African sun by a cork helmet. Here again the country and climate took their toll on uniforms and

equipment, causing troops in the field to present rather a battered appearance.

All this allows the creative modeller a great deal of scope to exercise his imagination.

Conversion 1

This depicts a British soldier during the Indian Mutiny 1857. It requires the Britains 'Deetail' American Civil War man loading.

Carefully remove the figure from its metal base and cut, file, or sand off all mould marks, flash, or other excrescences. Trim off the cap peak, and flatten the top to form a 'pork-pie' shape as in Fig 1. Then fit a piece of stout notepaper around the back of the cap as a neck guard, the lower edge should be about level with the shoulders. If it is desired to alter the head position this should be done before fitting the neck guard by removing the head and cementing it facing in the required direction. Next cut the large ammunition pouch from the rear of the belt, ensuring that it is damaged as little as possible in the process, and set it on one side. Make a small pouch from scrap material and fit it to the shoulder belts where they cross on the soldier's chest (Fig 2). The percussion musket/rifle moulded to the figure is quite correct for this period but a sling made from stout paper, or ribbon, should be attached as shown in Fig 3. In fact the ammunition pouch carried by British infantry at this time was fixed to the right-hand side of the belt in front, and would be concealed on this figure by the left hand and rifle-barrel. Make sure all operations have been carried out, smooth off any excess adhesive, etc, replace the figure on its stand, and coat it overall

with Unibond before undercoating and painting.

Conversion 2

This is for a British infantryman in the Zulu War 1879, and requires the 'Deetail' American Civil War soldier advancing, and a Rose Models metal head with Wolseley helmet. (This is a recent re-issue by the company, together with a Colonial pattern helmet.)

Take the figure off its base and clean off any mould marks, then remove the head and drill out the neck to receive the spigot of the metal head. The right arm holding the rifle can be slipped out of the shoulder socket at this stage and set on one side for the moment. Carefully cut the ammunition pouch from the back of the belt and re-attach it to the left side of the belt in front, with the pouch removed from the figure in Conversion 1 fitted to the right side of the belt (Fig 4), with a smaller pouch made from scrap below it. Shape the water-bottle on the right hip to represent the Oliver type, also shown in Fig 4. The trousers are now shaped at the lower legs to form gaiters; be sure that you don't overthin the ankles in this operation. Take the metal head and fit it into place in the neck hole, having first filed off the folded scarf or pagaree round the helmet. Replace the rifle in the right arm with a metal or hard plastic type, the arm carried in the Zulu War being the Martini-Henry, then re-attach the arm to the figure and add a sling as in Conversion 1. Having made good all joins, and fitted the figure back on to its base, it is then ready for undercoating and painting.

Both these conversions are of a type which can be managed successfully even by newcomers to military modelling, with a minimum of expense and effort, yet



Fig 1
Pork pie cap with neck cover. Indian 1857



Fig 2
Cotton drill tunic. Note small pouch where straps cross on chest.



Fig 4
Scarlet frock 1879 showing collar and cuff patches with white 'crows foot' piping. Note arrangement of pouches and water-bottle.



Fig 3
Enfield Rifle 1857 showing attachment of sling.

they result in original and out of the ordinary pieces.

In addition to re-issuing the helmeted heads mentioned above Rose Models can supply a great variety of heads, weapons, equipment, etc, in their range of accessories. Other firms who supply accessories are, of course, Historex Agents, Greenwood and Ball Ltd, and in the US HR Products of Morton Grove, Illinois. With the exception of Historex Agents, all these firms can supply a Martini-Henry rifle to 54 mm scale. Addresses are as follows, but please remember when making enquiries always to include a stamped and addressed envelope for the reply:

Greenwood & Ball Ltd.
2 Imperial Drive, Harrow, Middlesex.

Rose Models.
45 Sundorne Road, Charlton, London, S.E.6.

Historex Agents.
3 Castle Street, Dover, Kent.

H R Products.
9232 Waukegan Avenue, Morton Grove, Illinois, USA.

COLOUR DETAILS

Conversion 1

Head-dress cover: White.
Tunic: White or khaki drill.

Trousers: White or khaki drill.
Belts: Buff.

Water-bottle: Blue-grey.
Pouch: White.

Boots: Black.
Rifle sling: White.

Haversack: White.
NB: All white items quickly became dirtied and discoloured.

Conversion 2

Helmet: Buff or pale brown 'tea-stained'.
Tunic: Red with collar and cuff patches of facing colours.

Trousers: Dark-blue with red stripe down seams.
Belts and Pouches: Buff.

Boots and Gaiters: Black.
Water-bottle: Natural wood.
Haversack: Off-white.

Leopard ARV—from page 545

piece of medium 'wet and dry' abrasive paper rub a sloping flat surface along the needle, starting at the arrow and ending up with the needle semi-circular at the tip. Shape and drill the other end of needle as drawn. Pass the jib steadier up into the jib, flat side up, and fix other end between F and G with pivot pin.

Complete section 2 of the Airfix Leopard—the suspension section. Remove the pivot pins in the jib and jib steadier, also the pivot pins in dozer blade assembly for painting these parts. When dry, clean out all the drilled holes, then re-assemble dozer blade, jib and jib steadier. Pass the pivot pin through the dozer arms and with the dozer ram laying on top of the pivot pin, glue this pivot pin $\frac{1}{8}$ inch up the inside of the sloping front. The dozer blade should pivot from the vertical to near horizontal. Now, remember part A of the crane assembly. Find it, for you can now use it to fix the crane to the body of the ARV. Place the crane in position with part B protruding through the $\frac{1}{8}$ inch hole. Now glue part A to part B and, when dry, crane should turn.

Now glue the new top to the Leopard body, add the radiators and the extra sloping front, and complete the painting.

The problems of joining tracks seem to have come to an end with some cement, called 'Weldtite', sold in some chain stores. A spot of 'Weldtite' on both overlapping ends is needed, after which the tracks are clamped together overnight with bulldog clips. Finally, fix the machine gun on to main roof hatch, paint dark grey-green and apply transfers.



Above: Detail shot of the ARV showing new hatches and fittings made from plastic card.

This completes a neat model which, though more complex than many, makes a fine addition to a collection.

Last month I forgot to mention that the guns on the AA tank came from old Panther barrels left over from a previous conversion.

BELLONA BATTLEFIELDS
OO/HO. All at 19p each. Min. order 2
Bl British Artillery Pos. and Mortar Pit
B2 German Artillery Pos. and S.P. Gun Pos.
B3 Three Bunkers, one ruined
B4 Seven Gun Emplacements
BB10 Two Cottages reduced to ruins
BB11 British Pillbox and Dugout
BB12 Encampment of 12 Bivouacs
BB13 Tank Trap
BB14 German Pillbox and M.G. Pos.
BB15 Two Revetted Earthworks
WV1 Six Lengths of Walling
WV2 Three Lengths of Long Stone Wall
RV1 Three-span River Bridge
RV2 River Bridge
RV3 Culvert Bridge plus Three Walls
RV4 River Section (Straight)
RV5 River Section (Curved)
RV6 Stream Section (Straight)
RV7 Stream Section (Curved)
RV9 River Bridge in Ruins

ALMARK PUBLICATIONS
British Infantry Regiments
Waffen SS
French Napoleonic Artillery
American Civil War Infantry
German Combat Uniforms
Scottish Regiments and Uniforms
Regiments at Waterloo
Waffen-SS Divisional Signs 1939-1945
Plastic Scale Model Aircraft
Scale Model Soldiers

NOW IN STOCK
AURORA
U.S.S. ENTERPRISE
(FROM TV SERIES
"STAR TREK")

£1.90 P. & P.
20p

SEND 10p AND LARGES.A.E.
FOR FULL LISTS OF PRO-
FILES, TRANSFERS, BOOKS

OTHER MILITARY PUBLICATIONS

Modern British Tanks and Fighting Equipment	£1.00
British and German Tanks of World War I	£1.25
German Secret Weapons of World War II	£1.50
Russian Infantry Weapons	£1.50
Allied Bayonets of World War II	£1.25
British and American Infantry Weapons World War II	£1.25
Military Pistols and Revolvers	£1.25
World War II	75p
Model Soldiers—A guide to painting, animating and converting	75p
Fifty Famous Tanks	60p set 10p each
AFVs of the World	£2.10
NATO Armour	£2.10
British Army Vehicles and Equipment	£1.50
German Tanks and Armoured Vehicles 1914-1945	40p
British Tanks and Fighting Vehicles	£2.10
Fighting Vehicles of the Red Army	£1.50

PURNELL'S HISTORY OF THE SECOND WORLD WAR

Series of books

Bastogne, Aircraft Carrier, Buccaneers, Bomber Offensive, SS & Gestapo, The Gun '39-'45, Tank Force, Waffen SS, Panzer Division, By Air to Battle, Spitfire, Me 109, Siege of Leningrad, German Secret Weapons, Defence of Moscow, Nuremberg Rallies, Raid at St. Nazaire, Luftwaffe, Barbarossa, Sicily, Okinawa, Anzio, Midway, Barrage, Rocket Fighter T.34, Liberation of the Philippines, London's Burning, Japan, Pearl Harbour, Allied Secret Weapons, Kasserine, Battle of the Reichswald, Normandy Bridgehead, Airborne Carpet, Leyte Gulf, The Raiders, Tarawa, Defeat in Malaya, Zero Fighter, Commando, B.29, France	50p ea.
--	---------

POST AND PACKING
U.K. Add 10%. Min. 10p. Over £5.00 free.
OVERSEAS. See last month's ad. or send sufficient—balance will be credited.

30p

ELTHAM MODELS

THE FRIENDLY MODEL SHOP — 54 Well Hall Road, Eltham, London, S.E.9. Telephone: 01-850 4324. Hours of Business: Open Mon.-Sat. 10 a.m.-5.30 p.m. (Closed all day Thurs.) Late night Fri. open till 8 p.m.

PROFILE's

BY RETURN OF POST SERVICE
Post 3p any number

Warship 50p AFV 1-42 35p
43- 40p

Small Arms 40p Loco 45p
Aircraft 1-204 (Red series) 20p
1-204 (Blue reprints) 25p
205-235 35p
236- 45p

S.A.E. for free lists.
Universal Binders £1.25

BRADFORD MODEL RAILWAY CENTRE LTD.

202 Keighley Road, Frizinghall,
Bradford 9, Yorks.

19 Market Street, Huddersfield

D-DAY

D-DAY

D-DAY

The U.S. 101st Airborne Division has landed.
Bivouac Books proudly announce their sole agency for George E. Koskimaki's:

D-DAY WITH THE SCREAMING EAGLES

The blending of the personal accounts of 518 veterans of all ranks makes this truly an "unofficial official" history of the Division's part in the Normandy campaign. Years of research and interview make this an in-depth study of the finest order, the best work on June 6th's airborne actions since Marshall's 'Night Drop'.
416 pages 17 maps. 18 photos

Full appendices. Bibliography

Available direct from

BIVOUAC BOOKS LTD, 21/25 Earl Street,
London EC2A 2AL
or from your own bookseller

Price £3.00 post paid

Model Kits . Die-cast Scale Models . Die-cast Scale Models and Miniatures . Model Kits

SOLIDO of France PRESENT

COMPLETE RANGE 1/43

Die-cast Scale Military Models



223	AMX 13 Tank France
224	Command Car XM 706 £1.50
200	Combat car £1.00
201	Tactical Missile Launcher £1.65
202	Patton Tank (green) £2.36
202a	Patton Tank (tan) £2.36
203	Renault 4x4 £1.00
204	Canon 105/4 £1.66
205	Canon 105/F £1.66
206	Canon 250/0 £2.36
207	P.T. 76 Tank U.S.S.R. £2.36
208	SU 100 Tank U.S.S.R. (green) £2.36
208a	SU 100 Tank U.S.S.R. (tan) £2.36
210	AMX 30 Tank France £2.36
210a	Remote Control Patton Tank £8.78
211	Berliet Tank Transporter £3.78
212	Jeep Auto Union W/Trailer £1.18
213	as 212—camouflaged £1.50
214	Berliet Auroch £1.65
218	PT 76 Tank Missile Launcher £2.40
219	M41 Tank Fighter £2.75
222	Tiger Tank £2.40
222a	Tiger Tank 'Afrika Korps' £2.40

NEW
and
EXCLUSIVE



1/72 Scale Die-cast W.W.1
AEROPLANES . . .

No. 1102	AVIATIK D. I "BERG"
No. 1004	MACCHI NIEUPORT 11
No. 1101	ANASALDO A. 1 "Balilla"
No. 1103	ANASALDO SOPWITH "Baby"
No. 1104	HANSA BRANDENBURG D. I
No. 1002	FOKKER Dr.I

No. 1003 SPAD S XIII
No. 1001 S.E. 5a
R.R. price 84p each
PLUS . . .
4 models in 1972

model-time (Sole U.K. Agents)

6 St. George's Walk, Croydon,
Surrey CR0 1YG Tel: 01-688 6253
For catalogue send 5p and S.A.E.
Trade enquiries welcome

★ NEW DIE-CAST MINIATURE GUNS

S. & W. CHIEF.S. **tipo WINCHESTER 94** **Scale 1: 2.5**



99p • ART. A.2 Length 2½"

P & P(U.K. rates) Under £6
please add 20p Over £6
post free



Length 5½" • ART. A.3 £1.25

catalogue please send 5p and S.A.E.

model-time
6 ST GEORGE'S WALK,
CROYDON, SURREY CR0 1YG
Tel: 01-688 6253

Sole Agents in U.K.

• Armmodelli miniature guns • Edison Air Line • Manutua • Rio • Solido

Model Kits . Die-cast Scale Models . Die-cast Scale Models and Miniatures . Model Kits

June 1972

Scale Models and Miniatures . Model Kits

Die-cast Scale Models and Miniatures . Model Kits

Model Kits

581

AVIATION NEWS

ALTERNATE
FRIDAYS



ORDER A REGULAR COPY
FROM YOUR NEWSAGENT
NOW!

Half the price and twice as often as any of the other aviation enthusiasts' publications... that's Aviation News! Up-to-the-minute news features, civil and military articles, scale plans and model making are all included plus large well printed pictures on good quality paper. Here's real value for money! Make sure that your newsagent has a copy waiting for you on 26th May.

Alternatively send £2.60 to the publishers, Aviation News 3 New Plaistow Road, Stratford, London E.15 and have Aviation News sent post free to your home every fortnight.

THE AVIATION ENTHUSIASTS' FORTNIGHTLY

10p

ANNUAL
SUBSCRIPTION
£2.60 POST FREE

A. A. JOHNSTON Military Books
Pitney, Langport, Somerset Telephone Somerton 713

* AT THEM WITH THE BAYONET!—The First Sikh War
Illustrated, 200 pages, hardbound.
D. Featherstone
Post free £1.64

* A HISTORY OF THE DRESS OF THE BRITISH SOLDIER, from the Earliest Period to the Present Time
Lt. Col. J. Luard, 1852
A superb limited numbered, facsimile reprint of this scarce work bound in simulated morocco, complete with the 50 full page drawings.
Post free £5.75

* STAHLHELM Evolution of the German Steel Helmet
104 pages prof. illustd. with photographs and drawings, softbound.
Post free £2.62

GERMAN ARMY UNIFORMS AND INSIGNIA 1933-1945 B. L. Davis
375 photos and drawings, over 200 pages and pages of colour which include Shoulder Straps, Collar Patches, also 120 Bayonet Knot colours!
Post free £4.50

BUTTONS OF THE BRITISH ARMY 1855-1970
H. Ripley
50 plates illustrating over 600 buttons.
Post free £1.60

* HANDBOOK ON GERMAN MILITARY FORCES 1945
Facsimile reprint of the U.S. War Dept. Manual, prof. Illustd. 1000 photos and drawings, 8 pages in colour, 550 page, softbound.
Post free £7.00

Organisationsbuch der
NSDAP
(Organization Book of the Nazi Party)
1943 Edition

63 PAGES OF COLOUR this book illustrates every uniform, badge, insignia and flag of the German National Socialist Party. HARD COVER, 650 PAGES, ORIGINAL TEXT AND CONTENTS UNALTERED. A separate GERMAN-ENGLISH GLOSSARY is included to aid in translation.
Post free £9.29

* UNIFORMS AND BADGES OF THE THIRD REICH R. Kahl
Vol. I NSDAP, 287 illustrations, hardbound.
Post free £3.56
Vol. II SA, NSKK, SS, 556 illustrations, hardbound.
Post free £4.61
Vol. III HJ—NSF—RAD, 481 illustrations, hardbound.
Post free £4.06

* FAKES AND FRAUDS OF THE THIRD REICH
44 pages, illustd. softbound, 2nd revised enlarged edition
Peter Stahl
£1.40

* DIE WAFFEN SS
Die Waffen SS contains details of Foreign Legions, composition of the various Divisions, eight colour pages.
£2.34

* GERMAN 88 mm ANTI-AIRCRAFT GUN MATERIAL
Facsimile reprint of this US War Dept. Manual. Covers every use of this famous gun with hundreds of photographs, drawings, etc. 197 pages.
Post free £2.37

* THE SUBALTERN. A Chronicle of the Peninsular War G. R. Gleig
Author was with 85th Regt., one of the most entertaining accounts of the war. Maps, 400 pages, hardbound.
Post free £2.26

* NAZI MEDALS. A Collector's Handbook-Descriptions-Values
E. L. Beard

All the major campaign awards and badges, over 70 illustrations, 50 pages, spiral bound.
Post free £1.41

* INSIGNIA, DECORATIONS AND BADGES OF THE THIRD REICH AND OCCUPIED COUNTRIES R. Kahl
800 illustrations, hardbound.
Post free £4.61

* THE FRENCH IMPERIAL ARMY The Campaigns of 1813-4 and Waterloo
Uniform colour guide, illustd. 52 pages, softbound.
Post free £1.41

* MILITARY DICTIONARY, German-English, English-German, 8½" x 11", stiff paper cover. Facsimile reprint of the U.S. War Dept. Technical Manual.
Post free £1.34

* THE FRENCH INFANTRY AND ARTILLERY 1795-1812
Uniform colour guide, illustrated, 12 pages, softbound.
Post free 71p

* THE ORDEAL OF CAPTAIN ROEDER
Based on the original diary, the vivid account of the Napoleonic Army and its retreat from Russia, illustrated, hardbound.
Post free £1.39

PANZER IN RUSSLAND H. Scheibert and U. Elfrath
Profusely illustrated account of the German Tanks on the Eastern front, German and English text.
Post free £5.00

MODEL SOLDIERS P. Blum
A basic guide to painting, animating and converting. Very well illustrated.
Post free, Hardbound £1.39 Softbound 82p

Dealers' enquiries welcome for all titles marked *

AIRFIX
magazine

RATES: 5p per word. Minimum charge 50p

BOX NUMBERS: 20p extra charge

All advertisements must be prepaid

Please state classification required

Classified Adverts

Please address your correspondence to:
AIRFIX MAGAZINE Classified Advertisement Department
9 Ely Place, London, EC1N 6SQ
Closing date for next issue—June 1

Mattel Vacu-Form machines, brand new in original packing carton with all accessories and material pack—\$20 postpaid to England via surface mail—\$15 postpaid in USA. Order from Centurian Enterprises, PO Box 5815, Las Vegas, Nevada 89102, USA. [1184S]

Revell V-2 Rockets 1/70 scale. Send offers and stamped, addressed envelope to—Blitzkrieg Hobbies, Box 876, Hartford, Conn 06100, USA. [1177S]

Crossbow Plans. Easily built powerful Hunting Crossbow. Detailed scale plans 25p post free. T. & M. Stewart, Irving Street, Dumfries, Scotland. [1179S]

Aircraft Profiles Vol 10 bound £4. Janes AWA 1970-71 £5. 'Combat Aircraft of the World' £3. Many other aircraft books. SAE for list. S. A. Lee, 33 Howard Road, Coulsdon, Surrey. [1180S]

Airfix Magazines Aug 68-March 72, £5. Hudson 17 Leopold Ave, Farnborough, Hants. [1181S]

Armour and Aircraft Profiles, books, Airfix magazines. SAE for list. Walton, 9 Harbury Road, Sutton, Surrey. [1182S]

Purnell's History World War One, 8 vols. Offers: R. Dent, 131 Malmesbury Road, Bow, London E3 2DP. [1183S]

AFV books. Almarks, Profile, Ian Allan, etc. All good condition. SAE for list. D. M. Peeke, 15 Coach Drive, Hothfield, Ashford, Kent. [1197S]

WWII Aircraft. Collection of 187, plus 39 unmade kits, also 17 complete transfers. To be sold complete, £35. Collection preferred. Goodwin, 16 Sedgwick Road, Leyton, London E10 6QR. [1191S]

Fighting Powers vols 1-7, varying conditions, £35 set. Melling, 26 Bexfield Close, Coventry. [1196S]

Unbuilt Frog Vickers Vimy, Bass, 14a Ace Parade, Chessington, Surrey. [1190W]

Britains Plastic Soldiers. American Civil War Swappets. Complete. Bellamy, 53 Treadwell Road, Epsom, Surrey. [1192W]

Must Obtain Frog, Master, Proctor, Magister, Rapide, kits or constructed any condition, state price required. P. Furnival, 20 Lyneside Road, Knypersley, Biddulph, Staffs. [1195W]

MISCELLANEOUS

Swap! Send any six secondhand paperback books (or six Airfix Magazines) in good condition. Receive in exchange six American Civil War Posters. Terry's Shopshop, Irving Street, Dumfries, Scotland. [1178M]

Wargames in Chichester Area. Will anyone interested in forming a Wargames Group in the Chichester area communicate with A. H. S. Cocks, Tremur Cottage, Royce Way, West Wittering, Chichester, Sussex. [1185M]

SITUATIONS VACANT

Specialist military book publisher requires young man to train as representative. Preferably aged 18-25, with an interest in our subject area and possibly with some selling, shop or bookshop experience. The applicant should be resident in the Home Counties but to travel throughout the UK. Car provided. We can offer interesting and varied work along with genuine prospects of advancement. Reply to Arms and Armour Press, 2-6 Hampstead High Street, London NW3. [1189SV]

WANTED

'Vapour Trails' and 'Wiking' 1/200 scale plastic model aircraft 'Frog' ready-made flying models. Roberts, 28 Mumbles Road, Blackpill, Swansea. [1187W]

Airfix Magazines in good condition from No 1 to January 1971 wanted. Offers to Tore Hall, Troudhemsvei 170E, Oslo 5, Norway. [1188W]

AIRFIX MAGAZINE— Back Numbers

Copies are available of all issues from

March 1969 onwards

(except for January 1970)

Back copies cost 18p each, including postage (23p from November 1970 issue onwards). Please address all requests for back copies, together with your remittance, to our circulation department at SURREIDGE DAWSON & CO. (PRODUCTIONS) LTD, PUBLISHING DEPT, 136 NEW KENT ROAD, LONDON SE1.

DID YOU KNOW...

That the readership of Airfix Magazine has increased by nearly 40 per cent in the last two years.....

That over 43,000 copies were printed last month and that an average of 2½ people read each copy (which means our readership is now in excess of 100,000 per issue)

That Airfix Magazine advertising is the most effective and economical way of promoting and selling plastic model and hobby services and products throughout the country.....

ADVERTISEMENTS BRING RESULTS — JUST TRY IT!

to have and to hold... your AIRFIX magazines

The Classified Advertisement columns of this issue of AIRFIX MAGAZINE prove that copies of every issue become more and more valuable as time goes on. The circulation and readership increases steadily each month so that supply very often cannot keep up with the demand and you may well miss a copy. Make sure this doesn't happen to you by ordering a regular copy from your newsagent, or alternatively take out an annual subscription using the form below:

To: AIRFIX MAGAZINE — Subscription Dept.
Surridge Dawson & Co. (Productions) Ltd.,
136/142 New Kent Road, London, S.E.1.
Please send my AIRFIX MAGAZINE each month by post on publication for a 12 month period commencing with the issue. I enclose my cheque/postal order for £2.52. (Postage inclusive). (USA \$6.75)

Date..... Signed.....
NAME.....
ADDRESS.....
Please write clearly in block capitals. AM 6/72

Once you take AIRFIX MAGAZINE regularly, treat your copies like gold dust by preserving them in AIRFIX MAGAZINE EASIBINDERS. Order these now for your valuable back numbers, your last year's copies or even your next year's copies, using the form below.

To: AIRFIX MAGAZINE — Easibinder Dept.
PSL Publications Ltd., 9 Ely Place, London, E.C.1.
Please send me special AIRFIX MAGAZINE Easibinder's immediately at £1.50 each, post and packing free. I enclose my cheque/postal order for £..... Signed.....
NAME.....
ADDRESS.....
Please write clearly in block capitals. AM 6/72

IAN ALLAN BOOKS

BRITISH COASTAL SHIPS, TUGS and TRAWLERS

D. Ridley Chesterton

£2.25

Under one cover, virtually all British-owned ships of over 100 gross tons likely to be seen in British waters. Besides types mentioned in the title, details are given of self-propelled dredgers and similar harbour craft, pilot and lighthouse tenders, salvage ships, oil rig supply and servicing craft.

7½" x 4½" 176 pp (including over 50 halftones) £2.25

MOTOR AGE

1900-1904
1925-1929
1930-1934

First in an exciting new series of photographic albums compiled by Peter Roberts which traces the development of the motor car from early days. Further books in the series in course of preparation.

11" x 7½" 52 pp 60p

From leading booksellers, or direct from

IAN ALLAN

TERMINAL HOUSE
SHEPPERTON, MIDDLESEX
TW17 8AS

"Adlerangriff", the German 'attack of the Eagles'. Planned date Tuesday, August 13th 1940. Intention: to crush once and for all the vastly outnumbered Royal Air Force and so 'soften up' Britain for 'Operation Sea Lion', Hitler's planned invasion of England. The invasion that never was.

Up to this time Göring's much vaunted Luftwaffe had had an easy time of it. In Poland and in France, most of the outnumbered aircraft had been destroyed on the ground before the Blitzkrieg attack on the cities began. The British army had lost all its heavy equipment at Dunkirk, and the R.A.F. had lost more planes — and more pilots — than the country could afford.

So, on August 13th, with the codeword Adler Tag — 'Eagle Day' — the German attack was launched. At dawn, 84 Dorniers took the air under command of Oberst Johannes Fink. Yet in sight of the English coastline, over Cap Blanc Nez, just South of Calais, the Dorniers — promised clear skies — were met by rising banks of cloud. When the escorting Messerschmitt Bf 110 of fighter commander Joachim Huth finally appeared, it dived repeatedly past the nose of Fink's Dornier. Fink took this as telling him that the fighters were with him. But this was not the case. The fighter escort was, in fact, returning. The Eagle Day attack had been postponed until 2 p.m. So the Dorniers, one key radio out of action, kept on, heading for Eastchurch airfield and Sheerness, Kent.

The British too had their problems. Because of a surprise raid on the previous day by Bf 110 long-range fighters unexpectedly fitted with bombs, Ventnor radar on the Isle of Wight was out of action for weeks and radar installations were damaged at Dover, Rye and Pevensey.

On this occasion little warning was given, and aircraft were still lined wingtip to wingtip on the ground at Eastchurch when Fink's Dorniers arrived. The attack was on. Spitfires of the R.A.F.'s 74 Squadron, Hornchurch, fell on the massed — and unescorted — Dorniers from the rear, but the leaders escaped, and their bombs rained on Eastchurch airfield, smashing the operations block, killing and wounding nearly 40 personnel and writing off five grounded Blenheims. Yet the field was operational again within hours as a result of superhuman effort.

The real 'attack of the Eagles' began in the afternoon, as the Luftflotte groups 2 and 3 arrived over England between 3.45 and 5 p.m., aimed towards Portland, Southampton, Kent and the Thames Estuary. Forewarned by the earlier false start, 11 Group of Fighter Command was ready to meet the threat.

The great battle was joined in the skies over Southern England. 13 Spitfires saw a formation of Junkers 87b bombers below them and dived on them out of the sun, breaking up the escorting Bf 109 fighters and sending at least one down in flames. Score 1 for the R.A.F. Attacked by the Spitfires of 609 Squadron, nine Stukas were destroyed in minutes. The remainder missed their target, the airfield at Middle Wallop, and did little damage to Andover airfield, not a key target.

During this long-awaited Eagle Day the Luftwaffe flew 1,485 sorties — their most active day ever to that date. R.A.F. losses in the air were 13 fighters against 45 German aircraft brought down. Two of Britain's airfields were damaged, but one supposed fighter station turned out in fact to be a Coastal Command air station, 'a major error by German reconnaissance'. The main aim of Eagle Day — to crush Britain's fighter strength — was not achieved.

Yet Eagle Day was decisive. It is possible that the R.A.F.'s victory on this day set the pattern for the remaining days of the Battle of Britain. In this battle, the Nazi Eagle had its wings clipped.

* It is only a fitting tribute to the Spitfires and Hurricanes that gained this great victory that Revell should make them in both 1/32nd scale and 1/72nd scale, so that they can be represented in everyone's WW11 model collection — an appropriate reminder of a great victory.

* Revell make two 1/32nd scale 'Stuka' models: one the standard Junkers 87b as used in the Battle of Britain, the other a Ju 87b with Hungarian markings, as used in later phases of the war in Europe. Also in the range is the 1/72nd scale Messerschmitt Bf 109E, arch-enemy of the R.A.F.'s Spitfires and Hurricanes. Plus 1/32nd scale Bf 109G 'Gustav' and 'Bf 109 F'.

* The Junkers Ju 88 A-4, the most versatile of German planes also comes from Revell's vast range of 1/72nd scale model kits.

* There are over 60 World War I and II aircraft in the Revell range — ask for details where you buy your kits.

Adler Tag

Just didn't work out Why not?



REVELL (GB) LIMITED
Cranborne Road Potters Bar
Hertfordshire Tel: Potters Bar 58261



YOUR
MODEL MAIL ORDER HOUSE

Suppliers to the British and Overseas Governments



★ ★ ★

- 1 North American P-51D Mustang
- 2 Republic P-47 Thunderbolt
- 3 North American Mustang Mk. I-IV
- 4 Supermarine Spitfire Mk. I-XVI Merlin Engine
- 5 North American P-51 B/C Mustang
- 6 Curtiss (P-40) Kittyhawk Mk. I-IV
- 7 Curtiss P-41 Warhawk
- 8 Supermarine Spitfire—Griffon Engine
- 9 Spad Scouts
- 10 Lockheed P-38 Lightning

AIRCAM AVIATION SERIES

- 11 Consolidated B-24 Liberator
- 12 Avro Lancaster
- 13 Nakajima Ki.43
- 14 Republic F/RF-84F Thunderstreak/Thunderflash
- 15 Boeing B-17 Flying Fortress
- 16 Mitsubishi A6M-Zero Sen
- 17 North American F-86A-H Sabre Vol. I
- 18 Nakajima Ki.27
- 19 Grumman F6F3/5 Hellcat
- 20 Canadair Sabre Mk. I-VI/ Commonwealth Sabre Mk. 30-32
- 21 Kawasaki Ki.61-I/III Hien/Ki.100

22 North American B-25C-H Mitchell

23 Vought Corsair F4U-1/7 Corsair

24 Hawker Hurricane Mk. I-IV

25 Nakajima Ki.44-Ia/Ib Shoki

26 Hawker Hunter

S1 Battle of Britain

S2 Finnish Air Force

S3 Sharkmouth Vol. I

S4 Sharkmouth Vol. II

S5 Czechoslovakian Air Force

S6 Luftwaffe Vol. I

S7 Aerobatic Teams Vol. I

S8 Luftwaffe Vol. II

ALL £1.25 each



SCALE MODEL SOLDIERS

By Roy Dilley

COLLECTING
ASSEMBLING
CONVERTING
PAINTING
DISPLAYING
COLOUR PLATES

This new book in the "Almark Practical Guide" series will have wide appeal to all who are interested in the hobby of model soldier collecting. Author Roy Dilley is President of the British Model Soldier Society and a well known writer on model soldier making and collector. The book covers all aspects of the model soldier hobby (except casting) and gives a number of practical modelling examples. There are about 100 illustrations, plus 13 full-colour plates, making this a most attractive volume

Casebound Edition £2.00

Paperback Edition £1.50



Scale Model Soldiers

Collecting, converting, assembling, painting and displaying

Roy Dilley

ALMARK PUBLICATIONS

Also in the same series

NARROW GAUGE MODEL RAILWAYS
By Michael Andress
Bound £1.50
Paper 90p

PLASTIC SCALE MODEL AIRCRAFT
By W. R. Matthews
Bound £1.60
Paper £1.00

★ ★ FALLER 1:100 SCALE MODEL AIRCRAFT KITS ★ ★

No. 1333 Hks-3 German Glider	41p	hinged to load personnel and light vehicles and tanks	97p
No. 1156 F-156 Fieseler Storch	54p		
No. 1109 Me-109 Messerschmitt	46p		
No. 1087 Ju-87 Junkers "Stuka"	54p		
No. 1052 Ju-52 Junkers	£1.07		
No. 1088 Ju-88	74p		
No. 1262 Me-262 Messerschmitt	54p		
No. 1162 He-162A Heinkel Volksjager	41p		
No. 1111 He-111 Heinkel	64p		
No. 1917 Fokker Triplane	33p		
No. 1957 Geiger-Piper	38p		
No. 1027 Do-27	41p		
No. 1107 German Sports Plane KL-107	38p		
No. 1956 Piper Sports Plane	38p		
No. 1105 Phantom	74p		
No. 1058 Sikorsky Helicopter 58	74p		
No. 1084 F-84 Thunderstreak	38p		
No. 1061 TM-61 US Martin Matador	97p		
No. 1501 Noratlas 2501 High-capacity French transport, twin motors, body			

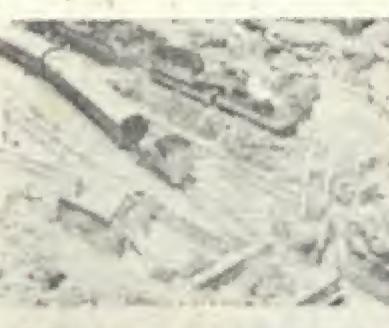
ITALAEREI

REGGIANE R.E. 2000	1/72 scale	59p
Reggiane R.E. 2001	1/72 scale	59p
Reggiane R.E. 2002	1/72 scale	59p
Fiat BR.20	1/72 scale	£1.85
Caproni CA.313/314	1/72 scale	£1.85

Vol. 5 Boeing P12/F4B	£1.20	Vol. 12 Heinkel He100, 112	£1.20
Vol. 6 Republic P.47	£1.20	Vol. 13 Heinkel He177 Greif	£1.20
Vol. 7 Kamikaze	£1.20	Vol. 14 Messerschmitt Me262	£1.20
Vol. 8 Junkers Ju-87	£1.20	Vol. 15 North American P.51 Mustang	£1.20
Vol. 9 Dornier Do.335	£1.20	Vol. 16 Messerschmitt Bf110	£1.20
Vol. 10 Supermarine Spitfire	£1.20	Vol. 17 Messerschmitt Me163	£1.20
Vol. 11 Chance Uought F4U Corsair	£1.20		

★ ★ A.B.T. DECALS from FRANCE 1/72 SCALE ★ ★

No. 100 Westland Lysander Mk. I 1940	25p	No. 112 Junkers Ju 88A-4, 7/KG 30	
No. 101 Mustang F-51D South Korean Air Force Pilot Colonel Dean E. Hess 1952	25p	Adler Geschwader 1942	25p
No. 102 Henschel Hs 129B Russia Summer 1942	25p	No. 113 P-47D Razorback Brutal Lulu, 352nd FG, 487th FS, 8th Air Force Norfolk 1943	25p
No. 103 Messerschmitt Bf 109F 9/JG2 Richthofen France Summer 1941	25p	No. 114 Messerschmitt Bf 110-C 7 Staffel 1942	25p
No. 104 Messerschmitt Bf 109E III/JG 2 Richthofen France May 1940	25p	No. 115 Messerschmitt Bf 110E 1/NJG 3 1941	25p
No. 105 Messerschmitt Bf 109E III/JG 1 Major Reinhard Heydrich	25p	No. 116 Hurricane Royal Air Force Dec. 1940 Sqd., Leader Stanford Tuck No. 257 Fighter Squadron	25p
No. 106 Focke-Wulf 190-A Western Front	25p	No. 117 Morane 406 C Finland 1940	25p
No. 107 P-47D Thunderbolt	25p	No. 118 Fiat G-50 Finland 1941 Pilot F.M.O. Tuominen	25p
No. 108 USAAF P-51B Mustang 20th Fighter Group, 79th FS 8th Air Force (Norhants)	25p		
No. 109 P-39 Airacobra France 1944	25p		
No. 110 USAAF Thunderbolt P-47D-25-RE, 9th Air Force 354th FG, 353 FS Major Glenn Eagleston	25p		
No. 111 USAAF Thunderbolt P-47M-1-R.A. 56th FS, Colonel Hubert Zemke 1945	25p		



'N' Gauge Model Railways

Michael Andress

ALMARK PUBLICATIONS

FULL RANGE OF "ALMARK" PAPERBACK AND CASEBOUND EDITIONS IN STOCK

POST AND PACKING: Please add 10% to all orders up to £5.00 (min. 10p). Over £5.00 post free. C.O.D. Charge 45p.

Vol. 18 Focke-Wulf FW 190A	£1.20	Vol. 20 Grumman F8F Bearcat	£1.20
Vol. 19 Lockheed P.38	£1.20	Vol. 21 Grumman TBF Avenger	£1.80

FOR MODEL SOLDIERS AND BOOKS SEE PAGE 575

